



JUNIOR CO-OPERATIVE

Variety Tests

WHEAT, BARLEY and FLAX

1953



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Foreword

By the President of the Saskatchewan Wheat Pool

Higher than average production of cereals in the world during recent years has brought keener competition for available markets. In the face of this keener competition, quality becomes increasingly important. Western Canada's reputation for producing wheat of superior quality places it in a preferred position in the markets of the world.

This superior quality is due to a combination of suitable soil and climate, together with advanced scientific knowledge in the development of new varieties. To maintain this position, constant breeding and testing of new grain varieties are necessary for the improvement of quality, disease resistance and yielding ability.

The Saskatchewan Wheat Pool has assisted with this work through its program of Junior Co-operative Variety Tests conducted during the past nineteen years. This work has produced information of interest and value, both for the farmer and the scientific worker.

Among the highlights in 1953 were the results of tests with the new Selkirk variety, the only wheat available at present with resistance to stem rust race 15B. New varieties of barley and flax were also tested and some of these show promise for use on Saskatchewan farms.

This valuable project would not have been possible without the cooperation of a large number of young men and women who conducted individual tests on farms throughout the province. On behalf of the Saskatchewan Wheat Pool, I would like to express sincere thanks to each of these Junior Co-operators, and to wish them every success in their future activities.

J. H. WESSON.

Introduction

IN a hungry world the search for new and improved varieties of grain crops never ends. New varieties must be developed to meet changing conditions and to increase the yield from each cultivated acre. The extent of this development is illustrated by the fact that of the twenty-one varieties recommended by the Saskatchewan Cereal Variety Committee (now the Saskatchewan Advisory Council on Grain Crops) in 1938, only six are still recommended for 1954. Of the twenty varieties recommended ten years ago, only eight are still on the recommended list.

Before a new variety can be recommended, extensive testing must be carried on to determine its adaptability under different soil and climatic conditions. During the past 19 years the Saskatchewan Wheat Pool has taken part in this testing of new varieties on a scientifically-planned, province-wide scale.

During the 1953 season 309 tests were conducted with varieties of wheat, barley and flax. The tests were supervised by young farm men and women who were carefuly selected for the work by the Wheat Pool delegate in each sub-district. Some of the young people were experienced test supervisors and others were conducting a project for the first time.

Assistance in planning the program and conducting the work was given by Dr. J. B. Harrington and his associates at the Field Husbandry Department of the University of Saskatchewan.

The following table shows the type of tests conducted and the number of each:

Project	No. of Individual Tests	Varieties Used
Wheat	174	Thatcher, Selkirk, S-250, Rescue, Chinook Lee and Nugget. (1)
Barley	101	Vantage, Husky, Harlan, Titan, Balder and Hannchen. (2)
Flax	34	Rocket, Redwood, Marine, Raja and CI-1155.

(1) Only five of the seven wheat varieties listed were used in each test. Thatcher, Selkirk and S-250 were included in tests throughout the entire province. Rescue and Chinook, both sawfly-resistant varieties, were used in the south, central and western Cereal Variety Zones (1A to 2E). They were replaced by Lee, a bearded bread wheat, and by Nugget, an early durum variety, in the eastern and northern zones (3A to 4B).

(2) Vantage and Husky were used in all tests. Harlan and Titan were included only in the south, central and western zones. They were replaced by Balder and Hannchen in the

eastern and northern zones. (See Zone Map, page 41.)

The wheat, barley and flax projects were summarized for comparison on a yield per acre basis and several other important characteristics such as weight per measured bushel, height, straw strength, and days required to mature were also recorded. The results are given in detail for each individual test. However, a single test is not a satisfactory guide in the choice of a variety because of the variations in soil and climatic conditions which occur within a general area. For this reason, the average results are summarized for all tests conducted within each cereal variety zone, and this discussion provides a more adequate basis for comparing the different varieties.

The section of the booklet dealing exclusively with wheat tests begins on page 10.

The section of the booklet dealing exclusively with barley tests begins on

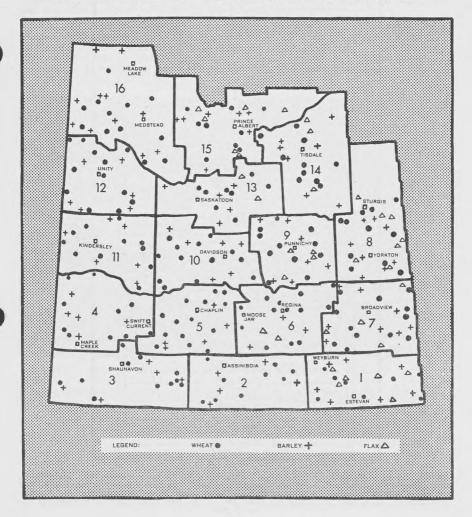
The section of the booklet dealing with flax tests begins on page 65. Flax tests were not conducted throughout the entire province, but were limited to Cereal Variety Zones 2A, 2E, 3A, 3B, 3C, 3D, 3F, 3J and 4A.

DESCRIPTION OF TESTS

A diagram of the wheat test appears on page 6. Twenty rows were sown, allowing for four rows (replicates) of each variety. The rows were $16\frac{1}{2}$ feet in length and were placed 18 inches apart. For protection purposes an extra buffer row was placed at each end of the test and the entire project was surrounded by a winter wheat border.

The barley tests and the flax tests were seeded in a similar manner. The barley test consisted of twenty plots of two rows each, allowing for five replicates of each of the four varieties. The flax test consisted of the same number of two-row plots, but there were five varieties and these were replicated four times throughout the test. One of the rows in each plot was used for testing purposes and the other provided protection and segregation for the test row. For additional protection the entire test was surrounded by a winter wheat border.

MAP SHOWING LOCATION OF TESTS ACCORDING TO WHEAT POOL DISTRICTS

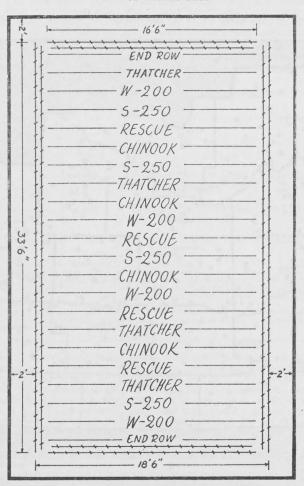


ORGANIZATION OF THE TESTING PROGRAM

In order to determine the suitability of a variety for use in different parts of the province it is necessary to conduct tests under many different types of soil and climate. An attempt was made in 1953, therefore, to place two tests in each of the 166 Wheat Pool sub-districts of Saskatchewan. With few exceptions the desired distribution was achieved. This is illustrated in the map on page 5, which shows the location of each test.

As the success of the project was dependent upon the accuracy with which each test was carried out, it was necessary to choose as test supervisors a group of dependable young farm people who had a keen interest in this type of work. Selection of the supervisors in each sub-district was carried out by the Wheat Pool delegate for the area. The supervisors chosen were, in most cases, between the ages of sixteen and twenty-one years.

PLAN OF WHEAT TEST



The crossed lines represent border rows of winter wheat. A two-foot pathway was left between the winter wheat border and the surrounding field crop. The barley and flax tests were laid out in a similar manner, except that 41 rows were sown. Five randomizations, or varietal arrangements, were used in seeding the tests. One of the five randomizations is shown in the above plan.

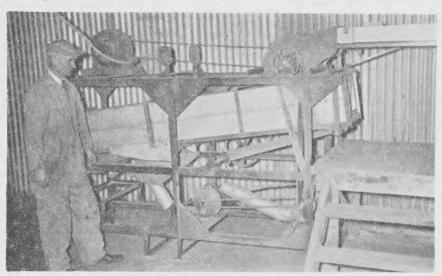
The equipment required for each test was supplied from Head Office of the Wheat Pool in Regina. Individual parcels of seed were carefully prepared and were shipped to the supervisors, together with full instructions explaining in detail the method of seeding the test. During the growing season, close contact was maintained between each of the 309 Junior Co-operators and the Junior Co-operative Department of the Wheat Pool organization.

The supervisors were requested to complete and forward regular progress reports concerning the comparative development of each variety. The information from these reports was summarized and was used as the basis for the results which appear in this booklet. When the grain was ripe, each co-operator carried out harvesting operations according to special instructions which had been supplied to him. Care was taken to ensure that the returns for each row were parcelled separately and were carefully marked in order to prevent errors in identification. The sheaves were dried and turned over to the nearest Pool Elevator agent for shipment to Head Office. On arrival at Regina, the sheaves were threshed separately and the yields were recorded. A sample of each variety was cleaned, weighed in pounds per measured bushel and graded.

Finally the yield, bushel weight and grade of each variety were entered on a summary sheet, together with the detailed information which the supervisor

had supplied in his reports during the growing season.

As has been the case during the past eighteen years, the project was planned and supervised under the guidance of Dr. J. B. Harrington, Professor of Field Husbandry, University of Saskatchewan, Saskatoon. The threshing, summarizing and statistical analysis in connection with the project were carried out at Head Office of the Saskatchewan Wheat Pool under the direction and supervision of I. K. Mumford.



The threshing machine at the Wheat Pool Head Office in Regina,

FACTS TO BE REMEMBERED IN READING AND STUDYING RESULTS

The information compiled from the results of tests carried out during a single year should not be considered as conclusive evidence in the selection of a variety. A variety which gives a favorable performance in any one season may not do well under conditions which exist the following year. When making a choice, therefore, the farmer is advised to study the results of several years' tests and in this regard the pamphlet entitled "Varieties of Grain Crops for Saskatchewan, 1954," is recommended. This pamphlet is compiled by the Saskatchewan Advisory Council on Grain Crops on the basis of information derived from tests conducted under the supervision of the University of Saskatchewan, the Canada Experimental Farms, and the Saskatchewan Wheat Pool. Copies

have been supplied to each Pool Elevator agent for the use of farmers in his district. Additional copies may be obtained free of charge from the University of Saskatchewan, Saskaton; The Saskatchewan Department of Agriculture, Regina; the Saskatchewan Wheat Pool, Regina; or any Canada Experimental Farm in the province.

Necessary Difference

The statistical term, "Necessary Difference," is used in different parts of this report. The "Necessary Difference" is calculated by applying an approved statistical formula to the yield results of each individual test. The result of the calculation is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test in order to be considered significantly superior in yield.

Straw Strength

Straw strength was reported on the basis 10-0. If the plants in a plot were straight and erect, the strength of the straw was recorded as 10. If the straw showed signs of weakness a lower figure was used, depending upon the degree of weakness observed.

Neck Strength

This term appears only in the section of the report dealing with barley tests. Neck strength was recorded on the basis of 1, 2, 3, where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength, while 3 was used when the neck appeared weak.

Results of Individual Tests

The results of individual tests appear in the following tables: Wheat, No. 26, Barley, No. 49, Flax, No. 62. These results are arranged according to Wheat Pool districts (illustrated on page 5), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. An examination of the results in these tables will reveal the fact that the varieties do not show similar relationships in all areas of the province. Results may differ widely, even in tests grown relatively close together. This variation may be due to several causes, most important of which are differences in soil type, climatic conditions, and date of seeding.

Grading Remarks

In determining commercial grades, bushel weight is a very important factor. However, there are many other factors which may lower the grade of a sample.



David Hainstock of Hart standing in his wheat test.

In the individual results, the column headed "Grading Remarks" contains abbreviations which are used to denote any adverse characteristics other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects:

Bl.—Bleached B.P.—Black Point D.—Dark D.G.—Dark Green F.—Frosted
B.F.—Badly Frosted
S.G.—Some Green
G.—Green

I.—Immature
St.—Stained
Stch.—Starchy
W.—Weathered

ANALYSIS OF DATA

The individual tests were grouped for analysis on the basis of cereal variety zones. These zones are illustrated on pages 40 and 41. The zone boundaries are laid out by the Saskatchewan Advisory Council on Grain Crops. Each zone represents an area in which conditions influencing plant growth are generally similar. However, local conditions within a zone may vary considerably from the average of the zone. It should be noted that some changes were made in the zone borders for 1954 as a result of study by the Advisory Council on Grain Crops. As stated in the section on "Results of Individual Tests" above, it is preferable to study the results of a number of tests in a zone rather than the results of any single test which might be affected by local conditions.

RAINFALL

As the amount of rainfall during the growing season has a greater influence upon the yields than the amount of annual precipitation, the rainfall shown in the following table covers only the months representing the growing period of wheat in Saskatchewan.

TABLE No. 1.—AVERAGE MONTHLY PRECIPITATION IN INCHES DURING THE PERIOD MAY-AUGUST SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	May	June	July	August	Total
1A	2.63	3.98	1.29	.98	8.88
1B	2.57	4.23	.89	1.93	9.62
1C	2.74	4.11	1.25	.98	9.08
1D	1.61	2.51	1.89	1.99	8.00
2A	3.18	6.53	1.87	2.04	13.62
2B	2.38	2.47	2.59	1.63	9.07
2C	2.42	3.10	1.00		6.52
2D	1.26	.93	2.45	1.55	6.19
2E	3.98	5.11	1.78	1.07	11.94
3A	2.58	5.41	2.09	1.19	11.27
3B	3.13	5.59	3.78	2.12	14.62
3C	2.84	4.93	3.51	2.24	13.52
3D	.25	2.53	2.22	.87	5.87
3E	1.22	1.54	3.60	3.29	9.65
3F	1.97	2.63	3.26	2.19	10.05
3G	.83	1.16	2.99	1.97	6.95
3J	.98	2.13	1.76	1.73	6.60
4A	2.35	3.65	5.10	3.74	14.84
4B	1.17	1.90	2.67	2.55	8.29

Note.—The above table was compiled from monthly rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a monthly precipitation record.

WHEAT TESTS

The wheat project consisted of 174 field tests and these were distributed throughout the grain growing area of the province. Seven varieties were tested. Thatcher, Selkirk (W-200) and S-250 were included in all zones. Rescue and Chinook, both sawfly-resistant varieties, were grown in the open prairie region (Cereal Variety Zones 1A to 2E).* They were replaced by Lee and Nugget in the parkland and wooded regions (Cereal Variety Zones 3A to 4B).*

DESCRIPTION OF VARIETIES

NOTE—For a report on official recommendations, and yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" on page 14.

Thatcher, the most widely grown spring wheat variety in Saskatchewan, is used in these tests as the standard of comparison for new varieties. It was developed to meet the need for a wheat of high milling and baking quality, which was resistant to the races of stem rust prevalent in the mid-1930's. Thatcher is highly resistant to spring frost damage and to shattering, but tends to bleach if exposed to fall weathering. It is resistant to stem rust (except race 15B) and to loose smut, but is susceptible to leaf rust and covered smut. It is moderately resistant to common rootrot. Thatcher was developed at the Minnesota Agricultural Experiment Station in 1921.

Selkirk (CT-186), the first bread wheat variety to be introduced which is resistant to race 15B stem rust, was developed at the Laboratory of Cereal Breeding, Winnipeg. It was licensed in December, 1953. It was grown in Wheat Pool tests under the code number W-200. In appearance Selkirk resembles Redman, one of its parents. Compared with Thatcher, it has straw of equal length and strength, equal maturity and resistance to shattering, and less tendency to bleach. The outstanding feature of Selkirk is its resistance to race 15B stem rust, but it is also resistant to loose and covered smut. Selkirk is being distributed for the first time in 1954. Only a limited quantity of seed is available as yet and this is being distributed in small lots to farmers in the area where stem rust is a serious threat.

S-250—This is a code number for a new unlicensed selection made at the Scott Experimental Station from the cross Regent x Canus. S-250 is still in the early testing stage. Compared with Thatcher it is taller, slightly later maturing and has less strong straw. It is resistant to covered smut and stem rust (except race 15B) and is susceptible to loose smut.

Rescue, the first sawfly-resistant bread wheat variety to be introduced, was developed at Swift Current Experimental Station from a cross between Apex and a solid stemmed variety. Since its release several years ago, it has played an important part in combatting the sawfly problem. Compared with Thatcher, Rescue is equal in height, weaker in straw and slightly later in maturity. It has less resistance to shattering but more resistance to bleaching. Rescue is moderately susceptible to common rootrot and is susceptible to covered and loose smuts, and to leaf rust. It is also susceptible to spring frost damage.

Chinook is a new sawfly-resistant, bread wheat variety, originated at Swift Current Experimental Station as a replacement for Rescue. It is the result of a cross between Thatcher and a solid stemmed wheat. It is superior to Rescue in quality and bushel weight. Compared with Thatcher it has taller, weaker straw, equal maturity and less resistance to shattering. It is resistant to stem rust (except race 15B), moderately susceptible to common rootrot, and susceptible to covered smut, loose smut and leaf rust. Chinook is susceptible to spring frost damage.

Lee is a bearded, bread wheat developed at the University of Minnesota. Compared with Thatcher it has shorter, slightly weaker straw, slightly later maturity, equal resistance to shattering and equal bushel weight. The kernels are larger and have less tendency to bleach. It is moderately susceptible to spring frost damage. Lee is resistant to leaf rust and to stem rust (except race 15B). It is moderately resistant to common rootrot but is susceptible to bunt and loose smut.

^{*-}See Cereal Variety Zone map, page 41.

Nugget is the only durum variety in Wheat Pool tests this year. Compared with Stewart, it has shorter, weaker straw and earlier maturity. Nugget is later than most bread wheat varieties. It is resistant to stem rust (except race 15B), leaf rust and rootrot, but is moderately susceptible to loose and covered smuts. Nugget is eligible for the top Amber Durum grades. This variety was originated at the North Dakota Experimental Station. Its parentage includes Mindum, Carleton, Heiti and Stewart.

TABLE No. 2.—AVERAGE YIELDS IN BUSHELS PER ACRE SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	No. of Satisfactory Tests	Thatcher	Selkirk	S-250	Rescue	Chinook	Lee	Nugget	Necessary Difference in Bushels
1A**	18	30.5	29.8	26.4	27.0	28.7	_	_	1.32
1B	6	27.3	25.8	24.4	24.0	27.4	_	_	2.56
1C	11	29.0	28.7	26.2	25.9	27.9	_		1.54
îD		41.3	38.7	35.9	35.4	35.0	_		N.S.
2 4		24.6	33.8	22.8	25.9	27.0	2	_	2.23
2A		29.4	29.7	28.9	28.8	29.7	_	_	1.74
2B		17.0	15.6	15.7	15.0	15.3	_	_	2.22
2D	4	23.4	28.1	22.5	22.9	22.2			3.65
2E	6			22.0	22.9		27.0	18.9	4.35
3A	10	23.7	33.5				28.2		3.36
3B	9	26.4	37.4	25.3	_	-		18.3	
3C	16	29.3	39.6	33.1	_	_	33.3	26.4	2.10
3D	3	35.1	35.0	31.4	_		35.4	34.9	5.16
3E	8	32.6	33.4	30.6	-	-	27.5	26.4	3.25
3F	4	29.4	32.9	28.3	_		27.4	22.1	3.81
3G	4	29.8	26.5	24.9	_	-	24.4	24.6	2.89
3J	3	28.5	29.1	27.3	_		25.4	26.2	2.95
4A		32.0	37.7	35.7	-	-	29.8	27.8	N.S.
4B	5	30.0	31.3	28.9	_	_	24.1	26.6	2.61

^{*} Necessary Difference.—Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group. N.S.—No significant grain yield difference between varieties.

** One test from zone 2C included with 1A.

Table No. 2. Zones 1A to 2E. Over most of this region Thatcher was superior in yield. It exceeded all other varieties in Zones 1A, 1C, 1D and 2D, and was practically equal to the top yielder in zones 1B and 2B. In the two other zones, however, where rust was an important factor, Thatcher was out-yielded significally by Selkirk, the new variety which is resistant to race 15B. Selkirk generally gave a good performance even where rust was not serious. In these zones it placed second to Thatcher by a narrow margin, and was at least equal to any other variety in yielding ability. Chinook placed third in yield on an average basis, although it outyielded all other varieties in Zone 1B and equalled Selkirk for first place in Zone 2B. It outyielded Rescue, the other sawfly-resistant variety, in six of the eight zones. S-250 was fourth in yield on an average basis. It was outyielded by all other varieties in Zones 1A and 2A. On an average basis, Rescue placed fifth in yield throughout the region.

Zones 3A to 4B. The superiority of Selkirk under severe rust conditions was demonstrated noticeably in this group of zones. It ranked first in yield on an average basis over the entire area, but its advantage was most evident in Zones 3A, 3B and 3C where it outyielded all other varieties by a wide margin. These are the zones in this group in which race 15B stem rust was most severe during the 1953 season. Selkirk actually outyielded all other varieties in eight of the ten zones in the 3A to 4B group. Apart from the worst rust area, however, its yield advantage over Thatcher and Lee was often not of a significant nature and further tests must be conducted before its relative ability under rust-free conditions can be determined. Thatcher ranked second in yield on an average basis, S-250 was third, and Lee placed fourth. Comparing the varieties on a zone basis, Thatcher and S-250 outyielded Lee in six zones in the north and northwest. In several of these zones the yield differences were significant. Lee, however, exceeded Thatcher and S-250 in yield in the southeast and eastern zones, 3A, 3B and 3C. Only in 3C were the yield differences of a significant nature, but Lee appeared to have a slight advantage over both varieties in these eastern regions. Thatcher outyielded S-250 in nine of the ten zones in the 3A to 4B group. Nugget, the only durum variety tested, gave a relatively poor yield performance. It placed fifth in yield on an average basis. and was outyielded by all other varieties in six of the ten zones.

TABLE No. 3.—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	S-250	Rescue	Chinook	Lee	Nugget
1A	101.8	102.5	102.5	102.1	101.5		
1B	92.5	93.0	92.5	96.5	93.0		-
1C	102.2	103.0	105.4	103.8	102.8	-	_
ID	_		-		_		_
2A	103.7	103.7	102.7	104.0	103.7	-	
2B	97.9	98.3	98.6	98.3	97.9		-
2D	106.0	106.3	107.0	107.0	107.0	-	-
2E	91.0	91.0	93.0	91.0	93.0		_
3A	104.3	105.3	107.4	_	_	104.1	103.4
3B	105.3	105.8	108.5		_	106.8	106.0
3C	103.7	110.6	109.3	-	-	109.3	110.0
3D	114.0	115.0	117.0	_	_	117.0	116.0
3E	102.8	103.0	102.8	-	_	105.0	102.3
3F	107.7	108.3	110.3	_	_	109.3	108.7
3G	120.0	120.0	120.0	_	-	119.0	119.0
3J		_	_	-	_		
4A	111.0	108.0	108.0	-		111.5	111.5
4B	99.3	100.0	101.3	_	-	101.8	103.3

Table No. 3. Zones 1A to 2E. Although Thatcher was slightly earlier than the other varieties on an average basis, the differences in maturity period were only of a minor nature.

Zones 3A to 4B. On an average basis, the different varieties matured in the following order: Thatcher, Selkirk, Nugget, Lee, S-250.

TABLE No. 4.—AVERAGE HEIGHT OF PLANTS IN INCHES SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	S-250	Rescue	Chinook	Lee	Nugget
1A	31.0	30.2	32.9	32.2	32.4		
1B	30.3	29.3	31.0	30.3	30.6	_	
1C	26.3	23.7	27.4	25.3	26.7	_	-
1D	_	_		_	_	_	
2A	31.0	31.8	35.2	33.2	32.0	_	
2B	30.3	29.6	31.8	30.9	31.6		
2D		18.0	20.3	20.7	19.7	_	_
2E		25.5	29.5	29.0	28.0	100	
3A	39.8	39.8	41.9	_	_	38.6	39.9
3B	38.0	38.8	40.9	_		37.8	37.9
3C		37.8	40.8	_		37.2	40.3
3D		31.5	35.5	-	_	32.5	32.5
3E		29.0	29.2	_	_	29.3	30.7
3F		41.5	43.0		_	41.0	42.5
3G		27.0	27.7			28.3	27.3
3.J		25.5	27.5		-	26.5	26.5
4A	12 0	43.0	43.0	_	_	43.0	43.0
4B	29.0	29.0	31.4	_	_	29.4	28.0

Table No. 4. Zones 1A to 2E. S-250 exceeded the other varieties in height in six of the seven zones. Chinook generally placed second, followed closely by Rescue, Thatcher and Selkirk in that order.

Zones 3A to 4B. Generally, S-250 was the tallest variety, followed by Nugget, Thatcher, Lee and Selkirk in that order.

TABLE No. 5.—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS 10(STRONG)—0 (WEAK) SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	S-250	Rescue	Chinook	Lee	Nugget
1A	8.0	8.7	8.2	8.0	8.3	10 22	1 1 1
1B	8.8	8.2	8.6	8.0	7.6	7	-
C	9.1	9.2	9.1	9.1	9.2		
D	_	_			_	-	1
A	7.4	8.4	7.7	8.1	7.2	-	-
В	7.4	7.8	8.1	8.5	8.1	-	_
D.	7.4	7.5	8.0	9.0	8.9	-	
E	8.9	9.4	8.3	8.3	8.5		-
A	9.3	9.6	9.1	-	_	6.8	5.6
B	8.8	9.6	9.3	_	-	7.9	5.3
C	8.7	9.1	8.8	_	-	7.1	5.2
D	9.7	9.4	9.3	_		8.8	7.7
E	9.2	9.1	9.5	_	1 1	8.9	8 1
F	6.7	7.6	6.9	_	_	6.7	4 6
G	7.3	9.3	9.8			9.8	8.5
I	8.3	8.3	8.5			8.8	7.3
A	8.5	8.9	8.4	-	_	8.4	7.7
В	9.3	9.2	9 1	_		8.5	7 1

Table No. 5. Zones 1A to 2E. Differences in straw strength were of a minor nature in these zones, although **Thatcher** was slightly weaker than the other varieties on an average basis.

Zones 3A to 4B. An average of all tests indicates that Selkirk had slightly stronger straw than the other varieties. It was followed closely by S-250, Thatcher and Rescue. The durum variety, Nugget, showed definite weakness in straw strength.

TABLE No. 6.—AVERAGE WEIGHT PER MEASURED BUSHEL SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	S-250	Rescue	Chinook	Lee	Nugget
1A	62.0	60.8	61.6	62.3	63.7		-
1B	62.5	60.0	61.6	63.5	64.5	-	100
1C	62.3	61.0	61.8	62.7	64.0	-	
1D	63.8	62.3	62.5	63.5	64.3	-	-
2A	59.3	61.3	58.3	59.6	61.8	_	_
2B	62.1	60.9	61.5	62.6	63.8		10-19-11
2D.	61.9	60.6	61.3	61.9	63.3	Territory 11	
2E	59.7	61.2	59.5	60.3	61.2	-	-
3A	59.1	61.2	58.1	_		60.4	56.2
3B	58.5	61.4	58.4			59.5	54.5
3C	59.8	61.6	59.8	-	_	60.2	57.5
3D	63.3	62.3	63.3	_		62.3	63.3
3E	62.5	61.9	62.3		-	59.7	61.0
3F	61.8	60.2	61.2			60.4	59.4
3G	62.5	61.5	62.5		-	61.5	62.8
3J	62.3	62.3	63.0		_	61.7	62.7
4A	60.0	59.5	59.8	_	_	59.0	59.0
4B	63.3	62.0	62.7	_	-	62.0	61.8

Table No. 6. Zones 1A to 2E. Generally Chinook was somewhat superior to the other varieties in bushel weight. Rescue and Thatcher were practically equal on an average basis, while Selkirk and S-250 placed fourth and fifth. It is interesting to note, however, that Selkirk compared most favorably with the other varieties in Zones 2A and 2E, where stem rust race 15B was prevalent. The good performance of Selkirk in these zones was undoubtedly due to its resistance to this disease.

Zones 3A to 4B. On an average basis **Thatcher**, **Selkirk** and **S-250** were practically equal. Lee averaged slightly lower and **Nugget** samples were generally inferior in bushel weight. Again in this group of zones, Selkirk was superior in the area most severely affected by rust.

TABLE No. 7—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES (ZONES 1A TO 2E)

3 Nor.

4 Nor. No. 4 Spec. No. 5

2 Nor.

1 Nor.

Variety

Thatcher Selkirk S-250 Rescue Chinook	31.3 19.3 16.9 48.2 63.9	50.6 45.8 48.2 37.4 27.7	97, 144 31 27 12 8	.5 .3 .7	3.6 1.2 4.8 2.3	% 1.2 1.2 —		% 1.2 1.2
		(ZONE	ES 3A TO	4B)				
Variety	2 Nor.	3 Nor.	4 Nor.	No. 4 Spec.	No. 5 No	. 5 Spec.	No. 6	Feed
Thatcher	28.2	52.1	11.3	%	5.6	% 1.4	% 1.4	%
Selkirk	22.6	52.1	22.5	-	2.8	-	-	_
S-250Lee	16.9 14.2	49.3 32.4	21.1 42.2	1.4	9.9 7.0	I	1.4	1.4
Nugget	1 C.W.	.2 C.W.	3 C.W.	4 C.W.	5 C.W.	97	W.	Feed % 7.1

Table No. 7. All varieties graded well as a result of high bushel weight and good harvest weather. On an average basis, Chinook and Rescue produced higher grades than the others. Selkirk and S-250 were practically equal and slightly below Thatcher. In general, Lee had lower grades than the other bread wheats tested.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

In comparing the performance of the varieties in a particular district, it is advisable to study, not only the results of an individual test in that district, but also the average results of all tests conducted under similar conditions in the surrounding area. Accordingly, the following section of the booklet has been prepared, showing the average results of all tests within each cereal variety zone. These cereal variety zones are illustrated on page 41. Each zone represents an area within which conditions of growth are generally similar, although in some cases local variations occur which may influence the performance of a variety.

Because weather conditions vary considerably from year to year, the results of several years' tests should be considered in judging the ability of a variety. The discussions of yield performance which follow are based on information obtained from Wheat Pool tests over a period of years.

The "official recommendations" referred to in the following pages are the recommendations of the Saskatchewan Advisory Council on Grain Crops (formerly the Saskatchewan Cereal Variety Committee).



Richard Schmalz of Shellbrook standing behind his wheat test.

TABLE No. 8.—SUMMARIZED RESULTS FOR ZONE 1A (18 satisfactory tests)

	Thatcher	Selkirk	S-250	Rescue	Chinook
Yield in bushels per acre	30.5	29.8	26.4	27.0	28.7
Days from seeding to ripening	101.8	102.5	102.5	102.1	101.5
Height of plants in inches	31.0	30.2	32.9	32.2	32.4
Straw strength (maximum of 10)	8.0	8.7	8.2	8.0	8.3
Bushel weight in pounds	62.0	60.8	61.6	62.3	63.7
Commercial grades in percentage: 1 Nor		16.7	16.7	58.3	83.3
2 Nor	50.0	66.7	62.5	37.5	16.7
3 Nor		12.7	12.5	4.2	
4 Nor			8.3		-
No. 5 Spec	-	4.1	_	_	_

Necessary difference—1.3 bushels.

Yield Performance During Recent Years—Zone 1A

Thatcher outyielded all other varieties in 1953, exceeding Chinook, Rescue and S-250 by differences which are significant. Thatcher has been used for many years as the standard of comparison in these tests, and it has consistently been a high yielder in this zone. Because of its excellent performance Thatcher is highly recommended for use in Zone 1A.

Selkirk was tested for the first time in 1953. Its most important feature is resistance to stem rust race 15B. As this disease is not a serious threat in most parts of Zone 1A, Selkirk has not yet been recommended

for this area. Further tests are required to determine its yielding ability over a period of years, and final recommendations for its general use will be made after several years of testing have been completed.

Chinook has been tested for the past two years and was outyielded by Thatcher both times. Chinook is resistant to sawflies, however, and this is an important characteristic in Zone 1A. Chinook significantly outyielded Rescue, the other sawfly-resistant variety, in the 1953 tests. It has replaced Rescue as an officially recommended variety for this zone.

Rescue placed fourth in yield in 1953. This variety has been valuable for sawfly control in the area, but is now being succeeded by Chinook.

S-250 was tested for the first time in 1953 and was outyielded by all other varieties. As results for a single year do not provide conclusive evidence, further tests are necessary before the suitability of S-250 can be determined.

TABLE No. 9.—SUMMARIZED RESULTS FOR ZONE 1B (6 satisfactory tests)

	Thatcher	Selkirk	S-250	Rescue	Chinook
Yield in bushels per acre	27.3	25.8	24.4	24.0	27.4
Days from seeding to ripening	92.5	93.0	92.5	96.5	27.4 93.0
Height of plants in inches	30.3	29.3	31.0	30.3	30.6
Straw strength (maximum of 10)		8.2	8.6	8.0	7.6
Bushel weight in pounds		60.0	61.6	8.0 63.5	7.6 64.5
Commercial grades in percentage: 1 Nor		50.0	66.7	66.7	100.0
2 Nor		33.3	16.6	33.3	_
3 Nor	16.7	_	16.7		
No. 4 Spec		16.7	_		

Necessary difference-2.6 bushels.

Yield Performance During Recent Years—Zone 1B

Chinook and Thatcher were practically equal in yield in 1953, and both outyielded the other varieties in this zone. In similar tests during the previous five years Thatcher gave an outstanding performance, outyielding all other varieties four times and placing second once. Chinook is a relatively new sawfly-resistant variety, which should receive consideration where sawfly damage is expected.

Selkirk placed third in yield in 1953, but failed to exceed any other variety by a significant margin. This is the first year that Selkirk has been used in Wheat Pool tests.

S-250 placed fourth in yield in 1953, the first year it was tested.

Rescue was outyielded by all other varieties in 1953. It is recommended for this area, however, because of its sawfly resistance and its good performance in past years.

TABLE No. 10.—SUMMARIZED RESULTS FOR ZONE 1C (11 satisfactory tests)

	Thatcher	Selkirk	S-250	Rescue	Chinook
Yield in bushels per acre	29.0	28.7	26.2	25.9	27.9
Days from seeding to ripening	102.2	103.0	105.4	103.8	102.8
Height of plants in inches	26.3	23.7	27.4	25.3	26.7
Straw strength (maximum of 10)		9.2	9.1	9.1	9.2
Bushel weight in pounds	62.3	61.0	61.8	62.7	64.0
Commercial grades in percentage: 1 Nor	50.0	50.0	41.7	83.3	100.0
2 Nor	50.0	25.0	50.0	16.7	
3 Nor		25.0	8.3	_	-

Necessary difference-1.5 bushels.

Yield Performance During Recent Years—Zone 1C

Thatcher and Selkirk were practically equal in yield in this zone in 1953. Both outyielded all other varieties significantly. Thatcher has been a top yielder in this area during past years, and is officially recommended. Only one year's results are available for Selkirk. Its resistance to stem rust race 15B is not an important factor in Zone 1C, and further tests will be carried out to determine its yielding ability before recommendations are made.

Chinook placed third in yield, exceeding both S-250 and Rescue by yield differences which are significant. It has been lower yielding than Thatcher

but superior to Rescue over a two-year testing period in this area. Like Rescue, it is resistant to sawflies, and because of its generally good performance and high quality Chinook is recommended for this zone.

S-250 was tested for the first time in 1953.

Rescue was low in yield in 1953, and has been dropped from the official recommendations for Zone 1C.

TABLE No. 11.—SUMMARIZED RESULTS FOR ZONE 1D (3 satisfactory tests)

	Thatcher	Selkirk	S-250	Rescue	Chinook
Yield in bushels per acre	41.3	38.7	35.9	35.4	35.0
Days from seeding to ripening	_	_	-	-	-
Height of plants in inches	-	_	_	_	
Straw strength (maximum of 10)			-		_
Bushel weight in pounds	63.8	62.3	62.5	63.5	64.3
Commercial grades in percentage: 1 Nor		75.0	50.0	100.0	100.0
2 Nor		25.0	25.0	_	_
3 Nor			25.0	-	_

No significant grain yield difference between varieties.

Yield Performance During Recent Years-Zone 1D

Thatcher yielded somewhat higher than the other varieties in 1953, but in no case was the difference significant. Since this zone was recently established, no yield data is available for past years. However, in Zone 1B, which previously contained a large area of what is now Zone 1D, Thatcher has consistently yielded well.

Selkirk ranked second in this zone during its first year of testing.

 $\mathbf{S}\text{-}250$ ranked third in 1953. It has been tested by the Wheat Pool for only one year.

Rescue placed fourth in yield. Because of its sawfly resistance, it is officially recommended for this zone.

Chinook was outyielded by all other varieties in the 1953 tests.

TABLE No. 12.—SUMMARIZED RESULTS FOR ZONE 2A (6 satisfactory tests)

	Thatcher	Selkirk	S-250	Rescue	Chinook
Yield in bushels per acre	24.6	33.8	22.8	25.9	27.0
Days from seeding to ripening	103.7	103.7	102.7	104.0	103.7
Height of plants in inches.	31.0	31.8	35.2	33.2	32.0
Straw strength (maximum of 10)		8.4	7.7	8.1	7.2
Bushel weight in pounds		61.3	58.3	59.6	61.8
Commercial grades in percentage: 1 Nor			_		43.0
2 Nor		57.0	43.0	15.0	57.0
3 Nor		43.0	29.0	57.0	_
4 Nor		_	14.0	14.0	
No. 4 Spec	_	_	14.0	14.0	-

Necessary difference-2.2 bushels.

Yield Performance During Recent Years-Zone 2A

Selkirk significantly outyielded all other varieties tested in this zone in 1953. As this was its first year in Wheat Pool tests, no previous yield comparisons are available. However, the outstanding performance of Selkirk during the past season is a striking example of its importance under stem rust conditions. Because of this factor, Selkirk is officially recommended for use in the zone.

Chinook, in second place, outyielded Rescue, Thatcher and S-250 significantly in the 1953 tests. In 1952 it ranked fifth.

Rescue placed third in 1953, outyielding S-250 significantly. In five previous years of testing Rescue has always been lower in yield than Thatcher, although it outyielded the standard variety by a narrow margin in 1953.

Thatcher placed fourth in yield during each of the past two years. For many years previously, however, it ranked first or second in the zone and is officially recommended.

S-250 was tested for the first time in 1953.

TABLE No. 13.—SUMMARIZED RESULTS FOR ZONE 2B (17 satisfactory tests)

	Thatcher	Selkirk	S-250	Rescue	Chinook
Yield in bushels per acre	29.4	29.7	28.9	28.8	29.7
Days from seeding to ripening	97.9	98.3	98.6	98.3	97.9
Plant height in inches		29.6	31.8	30.9	31.6
Straw strength (maximum of 10)		7.8	8.1	8.5	8.1
Bushel weight in pounds	62.1	60.9	61.5	62.6	8.1 63.8
Commercial grades in percentage: 1 Nor				33.0	33.0
2 Nor		48.0	52.0	57.0	62.0
3 Nor		52.0	48.0	10.0	5.0

Necessary difference-1.7 bushels.

Yield Performance During Recent Years-Zone 2B

Yield differences in 1953 were of a minor nature, and should not be considered of importance.

Selkirk was tested for the first time in 1953. Its resistance to race 15B stem rust is not likely to be an important consideration here, and no recommendations will be made until its regional suitability is determined by additional tests.

Chinook has been tested for two years, placing fifth in the 1952 Wheat Pool project. It gave a good performance in 1953, and its resistance to sawflies may be of considerable importance in this zone. It is officially recommended.

Thatcher has been used in tests in this zone for the past 15 years and has consistently been high in yield. It is officially recommended.

S-250 will be tested further before definite recommendations are made.

Rescue placed fifth in this zone in 1953. It was replaced by Chinook in the official recommendations for 1954.







Left, Gordon O'Byrne of Wilcox; centre, Billy Joblonski of Hume; right, Eleanor Rindal of Domremy.

CEREAL VARIETY ZONE 2C

In Zone 2C only one successful wheat test was conducted. For analysis purposes it was included with Zone 1A. The results of this test will be found in the table "Individual Summarized Results of All Tests—Wheat" under District 4, Sub-district 3, conducted by Carolyn Stern of Wymark.

TABLE No. 14.—SUMMARIZED RESULTS FOR ZONE 2D
(4 satisfactory tests)

	Thatcher	Selkirk	S-250	Rescue	Chinook
Yield in bushels per acre	17.0	15.6	15:7	15.0	15.3
Days from seeding to ripening	106.0	106.3	107.0	107.0	107.0
Plant height in inches	20.0	18.0	20.3	20.7	19.7
Straw strength (maximum of 10)		7.5	8.0	9.0	8.9
Bushel weight in pounds	61.9	60.6	61.3	61.9	8.9 63.3
Commercial grades in percentage: 1 Nor	14.0	14.0	14.0	29.0	29.0
2 Nor	29.0	14.0	14.0	14.0	29.0
3 Nor	57.0	72.0	72.0	57.0	42.0

Necessary difference-2.2 bushels.

Yield Performance During Recent Years—Zone 2D

Differences in yield in this zone were of a minor nature and should not be considered significant.

Thatcher was highest in yield. It has placed first or second consistently in this zone during twelve of the past thirteen years. Because of this outstanding performance it is officially recommended.

S-250 and Selkirk have been tested for only one year by the Wheat Pool. Further tests will be carried out before definite recommendations are made regarding these two varieties.

Chinook placed fourth in yield out of five varieties in each of the past two years. Because of its sawfly resistance and high quality it is recommended to replace Rescue in this zone.

Rescue has been tested during five of the past six years in this zone, placing third, fourth or fifth each time. It is not recommended for use in Zone 2D.

TABLE No. 15.—SUMMARIZED RESULTS FOR ZONE 2E
(6 satisfactory tests)

	Thatcher	Selkirk	S-250	Rescue	Chinook
Yield in bushels per acre	23.4	28.1	22.5	22.9	22.2
Days from seeding to ripening	91.0	91.0	93.0	91.0	93.0
Plant height in inches		25.5	29.5	29.0	28.0
Straw strength (maximum of 10)		9.4	8.3	8.3	8.5
Bushel weight in pounds		61.2	59.5	60.3	61.2
Commercial grades in percentage: 1 Nor		33.0	_	33.0	50.0
2 Nor		33.0	50.0	17.0	_
3 Nor		17.0	16.0	33.0	50.0
4 Nor	33.0	17.0	17.0	17.0	_
No. 5	-	_	17.0	_	_

Necessary difference-3.7 bushels.

Yield Performance During Recent Years—Zone 2E

Selkirk outyielded all other varieties significantly in 1953, demonstrating once again the outstanding performance of this variety in areas where stem rust race 15B is prevalent. Although this is the first year in which Selkirk has been tested, it has already demonstrated its value and has been recommended for use in this zone.

Thatcher placed second in yield, although its advantage over the three remaining varieties was in no case significant. Thatcher has been used in tests in this area for many years and has usually been the highest yielding bread wheat variety. It is officially recommended for this area.

Rescue placed third in yield. It has always yielded less than Thatcher in Wheat Pool tests in this zone. Rescue is not recommended for Zone 2E.

S-250 was fourth in yield in 1953, the first year it was used in these tests. Chinook placed fifth in yield in both 1952 and 1953. It is not recommended for use in this zone.

TABLE No. 16.—SUMMARIZED RESULTS FOR ZONE 3A (10 satisfactory tests)

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in bushels per acre	23.7	33.5	22.0	27.0		18.9
Days from seeding to ripening	104.3	105.3	107.4	104.1		103.4
Plant height in inches		39.8	41.9	38.6		39.9
Straw strength (maximum of 10)		9.6	9.1	6.8		5.6
Bushel weight in pounds		61.2	58.1	60.4		56.2
Zavisa negoti na pominina			7.7.7		Durum Grades	
Commercial grades in percentage: 1 Nor		_	_	_	2 C.W.	20.0
2 Nor	50.0	50.0	30.0	50.0	3 C.W.	40.0
3 Nor		50.0	50.0	40.0	5 C.W.	10.0
4 Nor			10.0	10.0	6 C.W.	20.0
No. 5	10.0	-	10.0	_	Feed	10.0

Necessary difference-4.4 bushels.

Yield Performance During Recent Years—Zone 3A

Selkirk outyielded all other varieties significantly in the 1953 tests. Its resistance to stem rust race 15B is an important feature in this zone

where stem rust is always a definite threat. Because of this resistance, Selkirk gave an outstanding performance in 1953. Although it has been tested for only one year, the information obtained so far has provided conclusive evidence of its value for use in this area.

Selkirk is highly recommended.

Lee placed second in yield in 1953. It was first tested by the Wheat Pool in 1950, when it outyielded all other varieties in Zone 3A. In 1951 and 1952 it placed second. Lee outyielded Thatcher in this area during three of the four years it has been tested by the Wheat Pool. It is officially recommended.

Thatcher placed third in yield in 1952 and 1953. As stated above, it has been outyielded by Lee in three of the past four years. Prior to that time, however, Thatcher was usually the highest yielder in the tests, and it still ranks as one of the best of the 15B-susceptible varieties. It is officially recommended.

S-250 placed fourth in 1953, the first year it was used in Wheat Pool tests.

Nugget, the only durum variety tested, was low in yield both in 1952 and 1953.



Beverley Hamilton, McCord, at the wheat test which she supervised.

TABLE No. 17.—SUMMARIZED RESULTS FOR ZONE 3B
(9 satisfactory tests)

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in bushels per acre	. 26.4	37.4	25.3	28.2		18.3
Days from seeding to ripening	105.3	105.8	108.5	106.8		106.0
Plant height in inches	38.0	38.8	40.9	37.8		37.9
Straw strength (maximum of 10)	8.8	9.6	9.3	7.9		5.3
Bushel weight in pounds	58.5	61.4	58.4	59.5		54.5
					Durum Grades	
Commercial grades in percentage: 2 Nor	10.0	20.0	10.0	20.0	2 C.W.	10.0
3 Nor	50.0	70.0	60.0	30.0	3 C.W.	10.0
4 Nor	10.0	10.0	_	40.0	4 C.W.	20.0
No. 4 Spec	_	_	-	10.0	5 C.W.	20.0
No. 5	10.0	_	20.0	-	6 C.W.	10.0
No. 5 Spec	10.0	-	_	-	-	-
No. 6	10.0	_	_	-	-	-
Feed		_	10.0		_	30.0

Necessary difference-3.4 bushels.

Yield Performance During Recent Years—Zone 3B

Selkirk outyielded all other varieties significantly in 1953. While only one year's results are available for this variety, it has already demonstrated its value under stem rust conditions. Because of resistance to this disease it has been officially recommended.

Lee placed second in yield in 1953, exceeding Nugget by the difference necessary for significance. Lee was outyielded by Thatcher in each of the

previous three years, but its resistance to leaf rust is worthy of consideration in this zone. It is officially recommended.

Thatcher was third in yield in 1953. It outyielded all other varieties significantly in 1952, and was top yielder in Wheat Pool tests during the previous five-year period. It is officially recommended.

S-250 ranked fourth in 1953, its first year of testing in this zone.

Nugget was outyielded by all other varieties in tests during the past two years.

TABLE No. 18.—SUMMARIZED RESULTS FOR ZONE 3C (16 satisfactory tests)

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in bushels per acre	29.3	39.6	33.1	33.3		26.4
Days from seeding to ripening	103.7	110.6	109.3	109.3		110.0
Height of plants in inches.		37.8	40.8	37.2		40.3
Straw strength (maximum of 10)		9.1	8.8	7.1		5.2
Bushel weight in pounds	59.8	61.6	59.8	60.2		57.5
The second secon		00		00,2	Durum Grades	
Commercial grades in percentage: 2 Nor	35.3	17.6	23.5	17.6	1 C.W.	5.9
3 Nor		58.9	41.2	41.2	2 C.W.	5.9
4 Nor	5.9	17.6	23.5	35.3	3 C.W.	29.4
No. 5	5.9	5.9	11.8	5.9	4 C.W.	29.4
No. 6			_	_	5 C.W.	23.5
Feed		-	-	-	_	5.9

Necessary difference-2.1 bushels.

Yield Performance During Recent Years—Zone 3C

Selkirk, in its first year of testing, outyielded all other varieties by a wide margin. Here again, its performance under conditions of stem rust was outstanding. It is officially recommended.

Lee and S-250 were practically equal in yield during 1953. This was the first year of testing for S-250. Lee has equalled Thatcher in average yield over the past four-year period. It is officially recommended.

Thatcher placed fourth in yield in 1953. During the previous ten-year period, however, Thatcher has consistently been first or second in yield in this zone. It is officially recommended.

Nugget has been tested in this zone during the past two years and has been low in yield both times.

TABLE No. 19.—SUMMARIZED RESULTS FOR ZONE 3D (3 satisfactory tests)

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in bushels per acre	35.1	35.0	31.4	35.4		34.9
Days from seeding to ripening		115.0	117.0	117.0		116.0
Plant height in inches		31.5	35.5	32.5		32.5
Straw strength (maximum of 10)	9.7	9.4	9.3	8.8		7.7
Bushel weight in pounds		62.3	63.3	62.3		63.3
					Durum Grades	
Commercial grades in percentage: 2 Nor	100.0	33.0	33.0	_	2 C.W.	33.0
3 Nor		67.0	67.0	100.0	3 C.W.	67.0

Necessary difference-5.2 bushels.

Yield Performance During Recent Years—Zone 3D

It should be pointed out that only three satisfactory tests were conducted in this zone during the past year, and the differences in yield cannot be considered of significance. All varieties yielded within a range of one-half bushel, with the exception of S-250.

Lee yielded well in the 1953 project, but was fourth in yield during each of the previous three seasons. Generally, it has averaged well below Thatcher in this zone and is not recommended.

Thatcher yielded well, as it has done in all previous tests in the zone. It is the only variety officially recommended.

Selkirk was tested for the first time in 1953. As this zone is not usually affected severely by rust, the need for a variety resistant to race 15B is

not urgent. Under the circumstances no recommendation will be made regarding Selkirk until further tests have been conducted.

Nugget, the durum variety, has given relatively poor results over the past two years.

S-250 was tested for the first time in 1953.

TABLE No. 20.—SUMMARIZED RESULTS FOR ZONE 3E
(8 satisfactory tests)

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in bushels per acre	32.6	33.4	30.6	27.5		26.4
Days from seeding to ripening	102.8	103.0	102.8	105.0		102.3
Plant height in inches		29.0	29.2	29.3		30.7
Straw strength (maximum of 10)		9.1	9.5	8.9		8.1
Bushel weight in pounds		61.9	62.3	59.7		61.0
odolici weight in podlido	02.5	01.5	02.0		Durum	
					Grades	
Commercial grades in percentage: 2 Nor	11.2		11.1	_	2 C.W.	11.1
3 Nor	55.5	55.5	44.4	22.3	3 C.W.	22.3
4 Nor		45.5	33.4	44.4	4 C.W.	55.5
No. 5		75.5	-	11 1	5 C.W.	11.1
No. 6		111	11.1	11.1	6 C.W.	
Feed			11.1	11 1	0 5.11.	No.15

Necessary difference—3.3 bushels.

Yield Performance During Recent Years-Zone 3E

Selkirk outyielded all other varieties, the difference being significant in the case of Lee and Nugget. This is the first time it has been included in Wheat Pool tests. As resistance to race 15B stem rust is not important in this zone, further tests will be conducted before definite recommendations are made.

Thatcher was second in yield in 1953. Prior to 1952 when it placed third, Thatcher has been an outstanding yielder in this zone, and is the only variety officially recommended.

S-250 placed third in yield in 1953. Its performance warrants further tests in the zone, but official recommendations regarding the variety will not be made until additional data is obtained.

Lee placed fourth in yield in both 1952 and 1953. It has been tested for four years in this zone, and its average yield has been considerably below that of Thatcher.

Nugget was outyielded by all other varieties in each of the past two years.



Ellwood Sawby of Golden Prairie with the sign he made for his wheat test.

TABLE No. 21.—SUMMARIZED RESULTS FOR ZONE 3F
(4 satisfactory tests)

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in bushels per acre	. 29.4	32.9	28.3	27.4		22.1
Days from seeding to ripening		108.3	110.3	109.3		108.7
Plant height in inches		41.5	43.0	41.0		42.5
Straw strength (maximum of 10)		7.6	6.9	6.7		
Bushel weight in pounds		60.2	61.2	60.4		4.6 59.4
Dusher weight in pounds.			0.12		Durum Grades	
Commercial grades in percentage: 2 Nor	40.0		20.0	_	_	_
3 Nor		60.0	60.0	40.0	3 C.W.	60.0
4 Nor		40.0	20.0	60.0	4 C.W.	40.0

Necessary difference-3.8 bushels.

Yield Performance During Recent Years-Zone 3F

Selkirk outyielded all other varieties in 1953, the differences being significant except in the case of Thatcher. Selkirk is primarily important because of its resistance to stem rust race 15B. This variety has been tested for only one year, and no recommendations will be made in zones outside the rust area until further data on yield and other characteristics are available.

Thatcher placed second in yield in 1953. In 1952 it outyielded all other bread wheat varieties significantly, and was top yielder during each of the previous five years. It is the only variety officially recommended for Zone 3F.

S-250 was third in yield in 1953, its first year in Wheat Pool tests. This variety will be tested further before official recommendations are made.

Lee placed fourth in yield in 1953. It was outyielded by all other varieties in 1952, and has generally given a poor performance in this zone.

Nugget, the durum variety, has been tested for two years and has averaged somewhat lower in yield than the bread wheat varieties.

TABLE No. 22.—SUMMARIZED RESULTS FOR ZONE 3G (4 satisfactory tests)

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in bushels per acre	29.8	26.5	24.9	24.4		24.6
Days from seeding to ripening	120.0	120.0	120.0	119.0		119.0
Plant height in inches		27.0	27.7	28.3		27.3
Straw strength (maximum of 10)		9.3	9.8	9.8		8.5
Bushel weight in pounds		61.5	62.5	61.5		62.8
					Durum Grades	
Commercial grades in percentage: 1 Nor	_		_	_	1 C.W.	
2 Nor		-		-	2 C.W.	25.0
3 Nor		75.0	75.0	25.0	3 C.W.	25.0
4 Nor		25.0	25.0	75.0	4 C.W.	50.0

Necessary difference-2.9 bushels.

Yield Performance During Recent Years-Zone 3G

Thatcher outyielded all other varieties significantly in this zone. With the exception of 1952 when it placed third, Thatcher has always given an outstanding performance in this area. It is the only variety officially recommended.

Selkirk was second in yield during 1953, its first year in Wheat Pool tests. Further tests will be conducted to obtain additional information before definite recommendations are made.

S-250 ranked third in yield during 1953. This is the first year it has been tested, and like Selkirk, further data will be required before recommendations are made.

Nugget and Lee were practically equal in yield during the past year. Both of these varieties had been tested previously, averaging well below Thatcher in yield.

TABLE No. 23.—SUMMARIZED RESULTS FOR ZONE 3J

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in busheis per acre	28.5	29.1	27.3	25.4		26.2
Plant height in inches. Straw strength (maximum of 10). Bushel weight in pounds.	26.0 8.3	25.5 8.3 62.3	27.5 8.5 63.0	26.5 8.8 61.7		26.5 7.3 62.7
Commercial grades in percentage: 2 Nor	_	_	_	_	Durum Grades 2 C.W.	33.3
3 Nor 4 Nor		100.0	100.0	33.3 66.7	3 C.W. 4 C.W.	66.7

Necessary difference-3.0 bushels.

Yield Performance During Recent Years-Zone 3J

This is a new zone created in December, 1953, including an area which previously formed the northern part of Zone 3B. As yield data were not calculated on the basis of this area in previous years, it is difficult to make varietal comparisons.

On the basis of available results, however, Selkirk outyielded the other varieties in 1953. Its yield superiority was significant only in the case of Lee. Selkirk has been tested for only one year, and further data will be obtained before recommendations are made.

Thatcher followed Selkirk closely in yield in 1953. On the basis of previous tests in this general area, Thatcher has averaged higher in yield than any other variety over a period of years. It is the only variety officially recommended for use in Zone 3J.

S-250 placed third in yield, but was not significantly lower than Selkirk or Thatcher. This was its first year in Wheat Pool tests.

Nugget was fourth in yield in 1953. During 1952 it was outyielded by all other varieties in this general area.

Lee was outyielded by all other varieties in 1953. This confirms the results of previous tests in the northern part of the province.

TABLE No. 24.—SUMMARIZED RESULTS FOR ZONE 4A
(3 satisfactory tests)

Thatcher	Selkirk	S-250	Lee	and which	Nugget
. 32.0	37.7	35.7	29.8	ABW 11	27.8
. 111.0	108.0	108.0	111.5		111.5
. 43.0	43.0	43.0	43.0		43.0
8.5	8.9	8.4	8.4		7.7
. 60.0		59.8	59.0		59.0
				Durum Grades	
					75.0
. —					-
	25.0	25.0	25.0	5 C.W.	_
	_	_	_	6 C.W.	25.0
	32.0 1111.0 43.0 8.5 60.0	. 111.0 108.0 . 43.0 43.0 8.5 8.9 . 60.0 59.5 . 25.0 — . 50.0 50.0 . 25.0 25.0	32.0 37.7 35.7 1111.0 108.0 108.0 43.0 43.0 43.0 8.5 8.9 8.4 60.0 59.5 59.8 25.0 — — 50.0 50.0 25.0 25.0 50.0 25.0 25.0 25.0 25.0	. 32.0 37.7 35.7 29.8 . 111.0 108.0 108.0 111.5 . 43.0 43.0 43.0 43.0 . 8.5 8.9 8.4 8.4 . 60.0 59.5 59.8 59.0 . 25.0 — — — — . 50.0 50.0 25.0 — — — . 25.0 50.0 75.0 . 25.0 25.0 25.0 25.0 25.0	32.0 37.7 35.7 29.8 111.0 108.0 108.0 111.5 43.0 43.0 43.0 43.0 8.5 8.9 8.4 8.4 60.0 59.5 59.8 59.0 Durum Grades 25.0 — — — — 2 C.W. 50.0 50.0 25.0 75.0 4 C.W. 25.0 25.0 25.0 25.0 25.0 5 C.W.

No significant grain yield difference between varieties.

Yield Performance During Recent Years-Zone 4A

Only three satisfactory tests were conducted in this Zone in 1953. Wide yield differences occurred between tests, and between varieties within tests. Because of these unusual variations a statistical analysis indicates that the differences in yield between the varieties are not significant, even though wide differences occurred in some cases.

Selkirk yielded well in 1953, its first year in Wheat Pool tests. As the results of one year's tests do not provide conclusive evidence, further tests will be conducted before any recommendations are made.

S-250 also produced good results in this zone. Like Selkirk, this is its first year of testing. Recommendations will not be made until further information is available.

Thatcher placed third in 1953, although it has been the highest yielding variety in Zone 4A during fourteen of the past sixteen years. It is the only variety officially recommended for this zone.

Lee placed fourth in yield in 1953, and ranked fifth of five varieties in 1952. Over a four-year period, Lee has been outyielded consistently in this zone.

Nugget was fifth in yield in 1953. It placed fourth out of five varieties in 1952.

TABLE No. 25.—SUMMARIZED RESULTS FOR ZONE 4B (5 satisfactory tests)

	Thatcher	Selkirk	S-250	Lee		Nugget
Yield in bushels per acre	30.0	31.3	28.9	24.1		26.6
Days from seeding to ripening		100.0	101.3	101.8		103.3
Plant height in inches	29.0	29.0	31.4	29.4		28.0
Straw strength (maximum of 10)		9.2	9.1	8.5		7.1
Bushel weight in pounds		62.0	62.7	62.0		61.8
busiler weight in pounds					Durum	
					Grades	
Commercial grades in percentage: 2 Nor	17.0		17.0		2 C.W.	
3 Nor		33.0	17.0	-	3 C.W.	33.0
4 Nor		67.0	50.0	67.0	4 C.W.	67.0
No. 5		_	16.0	33.0		-

Necessary difference-2.6 bushels.

Yield Performance During Recent Years-Zone 4B

Selkirk outyielded the other varieties in 1953, the differences being significant in the case of Nugget and Lee. Selkirk was developed specifically to meet the threat of stem rust race 15B, a disease which is not of importance in this region. Although Selkirk gave a good general performance during the past year, further tests will be required before recommendations are made for its use in this zone.

Thatcher ranked second in yield, exceeding Nugget and Lee by significant margins. During the past five years Thatcher has given higher average yields in this zone than any other variety. It is the only variety officially recommended.

S-250 placed third in yield in 1953. This is the first year it has been used in Wheat Pool tests.

Nugget placed fourth in yield in 1953, and was outyielded by all other varieties in 1952. Durum is an uncertain crop in this zone where the frost-free period is short. Although Nugget matures several days earlier than other durum varieties, it has been later than the bread wheats in these tests.

Lee was outyielded by all other varieties in this zone in 1953, and produced relatively low yields in the three previous years. It is not recommended in this zone.



Fred Petruic of Avonlea with some of the sheaves from his wheat test.

Table No. 26

Individual Summarized Results of All Tests-Wheat

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed "Facts to be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the summarization according to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

WHEAT POOL DISTRICT 1

Cereal Variety Cone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com- mercial grades	Grading remark
				ETTY C. CAV		AINSBOR	ROUGH				
Α	1	1	A	Thatcher	28.4	96	36	_	57	3 Nor.	-
				Selkirk	26.1	99	36	_	57	3 Nor.	_
				S-250	25.1	99	36	_	58	3 Nor.	Į.
				Lee	33.2	96 96	36 38	_	61	2 Nor.	I.
Vecessary differer	ice—4	.0 busl	nels.	Nugget	20.0	90	38	_	61	2 C.W.	_
				MALCOLM D	ORS'	TED. FEE	RTILE				
Α	1	2	A	Thatcher	22.3		_	_	61	2 Nor.	I.
				Selkirk	26.2	-	-	_	61	2 Nor.	I.
				S-250	21.0	-		_	60	2 Nor.	I.
				Lee	25.1	-	_	_	63	2 Nor.	I.
Necessary Differe	nce—	1 4 hus	hels	Nugget	20.9	_	_	_	62	2 C.W.	Stcl
vecessary Direct	nec .		-	A WINE CO WIO	OF VIEW	UEL A YVYNYY					
2.4	1	3	AW	AYNE C. WO	29.9	T, AUBU			61	2 Nor	T
3A	1	3	A	Thatcher	47.5	100	41 42	9.2	61	2 Nor. 2 Nor.	I.
				S-250	26.5	105	44	8.5	58	2 Nor.	I.
				Lee	34.7	101	42	8.0	63	2 Nor.	i.
				Nugget	26.2	101	41	6.0	59	3 C.W.	i.
Necessary differen	nce—4	.2 bus	hels.	1146800	20.2	101	71	0.0	37	3 C. W.	1.
				WAYNE, E.	KEND	ALL. BR	YANT				
2A	1	5	A	Thatcher	15.1	_	_		56	4 Nor.	
				Selkirk	25.1	-	-	-	60	2 Nor.	I.
				S-250	14.3	_	_	_	56	4 Nor.	_
				Rescue	17.0	-	_		57	3 Nor.	_
Necessary differe	nce—4	3 bus	hels.	Chinook	17.8	-	-	_	59	2 Nor.	_
Trecessary differen	100	7.0 040			-						
				CORRINNE J.			IDALE		-		
2A	1	6	A	Thatcher		102	33	9.0	57	3 Nor.	_
				Selkirk	26.9	104	32	8.8	59	3 Nor.	I.
				S-250	19.6	101	32	9.0	55	4 Spec.	_
				Rescue	21.4	103	32	8.8	56	4 Nor.	_
cessary differe	nce-3	3.2 bus	hels.	Chinook	20.6	103	33	8.3	59	2 Nor.	-
		-		WALLACE J	. BLO	CK, OUN	GRE				
2A	. 1	7	A	Thatcher	25.5	101	36	8.5	61	1 Nor.	
				Selkirk		101	32	10.0	63	2 Nor.	Į.
				S-250	23.4	101	42	9.0	60	2 Nor.	I.
				Rescue		102	37 38	9.5	61	1 Nor.	_
Necessary differe	nce-	6.0 bus	hels.	Chinook	21.9	101	38	9.5	63	1 Nor.	_
		-	-	RY AND RAN	DATT	CREEP	WEVEL	TPN			
2A	. 1	8	A	Thatcher		GREEK,	WEID		(A)	2 N. (E) —
				Selkirk		_	_	-	60	2 Nor.	I.
				S-250	4.4	-	_	_	(A)	2 N. (E) -
				Rescue	9.2			-	58	2 Nor.	_
				Chinook	13.1		_	_	59	2 Nor.	_
Samples incompl	ete—\	ields n	ot used	in Zone Summa	ries.						
Samples incompl (A)—Insufficien (E)—Estimated	t to ca	alculate	ot used bushel	in Zone Summa weight.	ries.						

2A...... 1 4 A James E. Miller, Bienfait.

WHEAT POOL DISTRICT 2

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com- mercial	Grading
2A	2	1	A	R. G. CR Thatcher Selkirk S-250 Rescue Chinook	ONE, 25.0 31.4 23.2 23.2 26.2	RADVILL	28 29 31 29 29	=	62 63 60 63 64	2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor.	I. D., C D., C
Necessary differen	nce—2	.8 bush	nels.	Cimiook	20.2		27		04	1 1401.	
2A		2 4 hual	A	GILBERT VEI Thatcher Selkirk S-250 Rescue Chinook	27.9 36.1 23.2	RGT, CE	33 36 41 42 35		58 61 57 59 62	3 Nor. 3 Nor. 3 Nor. 2 Nor. 2 Nor.	I. D., C
ivecessary differen	100-2	. 4 bust	ieis.	DAWED O H	ATRICI	100T T	ADM				
1A	2	3	A	DAVID O. H Thatcher Selkirk S-250 Rescue	40.1 40.0 33.8 34.3	= = = = = = = = = = = = = = = = = = =	41 37 39 41	9.0 10.0 8.5 8.0	62 62 61 61	1 Nor. 2 Nor. 2 Nor. 1 Nor.	<u>I.</u>
Necessary differen	nce-4	.0 bush	nels.	Chinook	38.2	_	40	8.8	64	1 Nor.	
1C		4	A	ALBERT J. S. Thatcher Selkirk S-250 Rescue Chinook	27.2 32.1 23.8	A, ROCK	GLEN - - - -	E	59 57 58 58 61	2 Nor. 3 Nor. 2 Nor. 2 Nor. 1 Nor.	
Necessary differe	nce—2	.9 busl									
1C		5 7 busl		Thatcher	19.3 16.4	107 107 109 107 108	21 15 23 13 18	E	59 57 59 60 63	2 Nor. 3 Nor. 2 Nor. 2 Nor. 1 Nor.	<u>=</u> <u>I.</u>
IAYields not used in		6	A	ALFRED Thatcher Selkirk S-250 Rescue Chinook	18.3 11.3 12.2 9.8	=	=	=	62 57 61 60 61	2 Nor. 3 Nor. 3 Nor. 2 Nor. 2 Nor.	Bl. I. Bl. Bl.
Tields not used in	20116	Summe	ily becar	KENNETH W			-	ates.			-
Test damaged—		7 not use	A d in zone	Thatcher Selkirk S-250 Rescue Chinook		- - -	30 28 31 31 30	9.5 9.8 9.5 9.8 9.8	59 59 59 61 63	2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	===
1A		9	A	J. KEITH Thatcher Selkirk S-250 Rescue Chinook	19.8 31.6 15.7 17.7 23.0		MA	=	57 61 56 58 61	3 Nor. 2 Nor. 4 Nor. 2 Nor. 2 Nor.	ī.
Test damaged by	wirew	orms—	- Yields r				BEART				
1A		10	A	W. WAYNE Thatcher Selkirk S-250 Rescue Chinook	38.8 40.3 33.9	109 111 111 110	36 36 39 37 38	7.8 7.0 7.3 9.0 8.3	61 62 61 62 63	2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor.	Bl. I. I. Bl.
Necessary differe	nce—4	.0 bus	hels.								
			V	HEAT PO	OL	DISTR	ICT 8	3			
1C		1 Id diffe	A	EVERLEY R. Thatcher	18.0 18.8 19.4 17.9 16.4	LTON, M	IcCORD	E	63 62 62 63 65	1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor.	

Wheat Pool District 3-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel		Grading remarks
				ROMEO M	ORIN.	FERLA	ND				
1C	3	1	В	Thatcher Selkirk S-250 Rescue	46.4 45.0 45.5 47.1	=	=	Ξ	62 62 63 63	2 Nor. 3 Nor. 3 Nor. 1 Nor.	Bl. D., G. D., G.
No significant gra	in yiel	d differ	rence be	Chinooktween varieties.	48.7	-	-	-	64	1 Nor.	ene su de
					ET ETN	MANTE	OTA		-		
1C	3	1	С	MERVIN V. Thatcher	31.0	98	33	8.5	63	1 Nor.	_
				Selkirk S-250	30.3	100 101	32 31	8.8 8.5 9.5	62 62	1 Nor. 2 Nor.	D., G
				Rescue Chinook	28.1 32.6	100	33 34	9.5	64	1 Nor. 1 Nor.	
Necessary differen	nce—1	.6 bush	nels.	Cililiook	32.0	99	34	9.5	05	I INOI.	
	-	-		NORMAN I	ELLIS.	RELIAN	CE			77.77	
1C	3	2	A	Thatcher	26.8	98	21	8.3	64	1 Nor.	_
				Selkirk S-250	29.1 25.9	98 102	20 24	9.0	63 62	1 Nor. 1 Nor.	_
				Rescue	25.9	100	22	8.5	63	1 Nor.	_
o significant gra	ain yiel	d diffe	rence be	Chinook tween varieties.	25.9	98	21	9.3	65	1 Nor.	-
	-	-	1	LEROY A. WA	RDBE	RG. ROI	SART				
1C	3	5	A	Thatcher	14.6	101	22	9.7	63	2 Nor.	Bl.
				Selkirk S-250	16.4	103 103	23 22	9.7 9.5	60 61	2 Nor. 2 Nor.	Bl. Bl.
				Rescue	10.2 13.3	103 101	21	9.7	63 64	1 Nor. 1 Nor.	_
Test damaged by	wind-	-Yields	s not use					10.0	0,	2 1,1011	
			,	WILLIAM E. I	REYNO	DLDS, SE	NATE				
1C	3	5	В	Thatcher	27.1	-	-	-	62	1 Nor.	-
				Selkirk S-250	28.1			_	60 62	1 Nor. 1 Nor.	_
				Rescue	25.3 22.9			=	63 65	1 Nor. 1 Nor.	_
Necessary differe	nce—1	.6 bush	hels.	Ommook					05		
951	7.5			BILLY VO	LL, SI	HAUNAV	ON	-			-
1C	3	8	A	Thatcher	35.0	-	32	9.5	64	1 Nor.	-
				Selkirk S-250	31.0	_	32 33	9.1 9.7	63 63	1 Nor. 1 Nor.	_
				Rescue	29.0 30.4	=	32 33	9.4	65 65	1 Nor. 1 Nor.	
Necessary differen	nce-2	.1 bush	nels.								
	200			FRED J. SUT	TER,	SHAUNA	VON				
1C	3	8	В	Thatcher	37.0	107	28 25	-	65	1 Nor.	-
				Selkirk S-250	35.0 34.8	107 112	29	_	64 64	1 Nor. 1 Nor.	=
				Rescue	34.0 33.0	109 108	28 27	_	65 66	1 Nor. 1 Nor.	_
No significant gra	ain yiel	d diffe	rence be	tween varieties.							
				CARL R. I		ADMIR.					
1C	3	9	A	Thatcher Selkirk	24.0 20.6	_	27 26	9.6	62 61	2 Nor. 2 Nor.	Stch. Stch
				S-250	16.3	-	30	9.4	63	2 Nor.	Stch
				Rescue Chinook	15.6 21.6		28 28	7.8 7.8	63 64	1 Nor. 1 Nor.	
Necessary differen	nce—1	.2 bush	nels								
				JIM CRO		KINCAL	D				
1C	3	10	A	Thatcher Selkirk	28.4 23.5	7	100	_	62 61	2 Nor. 2 Nor.	Bl.
				S-250	19.4	_	_	=	63	2 Nor.	I.
				Rescue	22.6 25.3	_	三	=	63 64	1 Nor. 1 Nor.	=
Necessary differen	nce-3	.5 bush	nels.								
					-	-	-				

WHEAT POOL DISTRICT 4

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw strength	Lbs. per meas- ured bushel	Com- mercial	Grading remark
1B	4	1	R.	GEORGE WE Thatcher Selkirk	31.0 28.2	CARM	27 25	8.0 9.0	64 63	1 Nor. 1 Nor.	=
				S-250 Rescue Chinook	30.6 28.6 28.3	=	31 29 29	8.0 7.0 7.0	64 65 65	1 Nor. 1 Nor. 1 Nor.	Ξ
Necessary differen	nce—1	.6 bush	els.	Omnook	20.5			1.0	03	1 1401.	
1B	4	2	A	OMAS W. CA Thatcher Selkirk S-250	16.5 17.2 16.5	89 91 90	E CREE	K _	64 61 63	1 Nor. 1 Nor. 1 Nor.	=
No significant gra	aim vial	1.4:66om		Rescue	14.2	88 92	=	=	65 66	1 Nor. 1 Nor.	Ξ
No significant gra	ain yiei	ia airrer									
2C	4	3	AC	AROLYN J. S Thatcher Selkirk S-250	15.8	112 113 111	33 33 34	=	62 61 62	1 Nor. 1 Nor. 2 Nor.	<u>_</u> I.
No significant gra	oin vial	d differ	ence he	Rescue	16.0 18.1	111 111	33 33	=	62 63	1 Nor. 1 Nor.	=
No significant gra	alli ylei	d differ	ence be			***	* 4 ******				
1B	4	5	A	Thatcher Selkirk	31.9	E, PENI	NANT —	=	62 60	1 Nor. 2 Nor.	Ī.
				S-250 Rescue Chinook	23.7 23.5 31.2	Ξ	Ξ	Ξ	62 63 64	1 Nor. 1 Nor. 1 Nor.	=
Necessary differen	nce—2	.6 bush	els.								
1B	4	6	ELL	WOOD J. SAY Thatcher Selkirk	VBY , 0 27.9 29.0	96 95	PRAIR 29 29	9.3 6.5	63 60	1 Nor. 1 Nor.	
N::G:	ain arial	1.1:66		S-250 Rescue Chinook	26.9 25.6 29.4	95 95 94	28 29 29	8.7 9.0 8.7	61 63 64	1 Nor. 1 Nor. 1 Nor.	Ξ
No significant gra	ani yiei	iu uniei			TACITE	T TION	CTTABE				
1B	4	7	A	Thatcher Selkirk S-250	30.0 27.8	LL, HOR	35 34 34	9.0 9.0 9.2	58 53 57	3 Nor. 4 Spec. 3 Nor.	
Necessary differe	nce—1	.9 bush	els.	Rescue Chinook	25.4	=	33 34	8.0 7.0	61	2 Nor. 1 Nor.	<u>I.</u>
				DARYL W. S	MITH	LEMSF	ORD				-
1A	4	9	A	Thatcher Selkirk S-250 Rescue	26.0 24.4 25.5	=	=	Ξ	64 62 64 64	1 Nor. 2 Nor. 1 Nor. 1 Nor.	<u>I.</u>
No significant gra	ain yiel	ld differ	ence be	Chinook	24.0	11 7 0	-	_	64	1 Nor.	-
				DON M. AND	ERSON	, HAZLE	e T				
1B	4	10	A	Thatcher Selkirk S-250	26.6 22.6 22.4	Ξ	Ξ	Ξ	64 63 63	2 Nor. 2 Nor. 2 Nor.	Sten Steh
No significant gra	ain yiel	ld differ	ence be	Rescue Chinook tween varieties.	26.8 26.8	- NA	=	=	64	2 Nor. 1 Nor.	Stch Stch
Tests Di	scarde	ed on A	ccount	of Damage b	y Flood	ing, Pest	s, Hail,	Drought	or Othe	r Cause	s
2C 1B	4	8	A	of Damage by Hubert R. Wh H. Lloyd Russ	sell, Est	l Lake. uary.					
		1,1-1	4	. eraswa	Hala St	na iére					
		,	W	HEAT PO	OL I	DISTR	ICT 5				
1.4	-			J. ALBERT (RS, PAL	MER	-	(2)	1 37	
1A	5	1	A	Thatcher Selkirk S-250 Rescue	20.0 19.7 21.6 19.7	=	=	Ξ	63 61 62 63	1 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	I.
No significant gra	nin viel	d differ	ence be	Chinooktween varieties.	20.7	TO THE WO	1	-	65	1 Nor.	-

Wheat Pool District 5-Continued

01											
Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com- mercial	Grading
			G	ERALD E. JA	COR	ST. BOS	WELLS			-	
1A	5	. 2	A	Thatcher	28.7	SI. BUS	30 30	7.0	63	2 Nor.	Stch.
				Selkirk	28.4	_	30	7.8	62	2 Nor.	I.
				S-250	26.7	_	32	7.8 7.5	63	2 Nor.	Stch
				Rescue		_	32	7.0	63	1 Nor.	_
No significant gra	in viol	d diffor	ongo ho	Chinook	28.6	_	33	7.3	64	1 Nor.	_
140 significant gra	illi yiei	u uniter	ence be	tween varieties.		* -		11			
				DALE L. F	OWKE	. NEVIL	LE				
1A	5	3	A	Thatcher	24.2	_	30	6.8	60	2 Nor.	BI.
				Selkirk	24.0	-	27	8.3	58	2 Nor.	
				S-250	21.3	_	31	6.0	60	2 Nor.	Bl.
				Rescue Chinook	22.7		30	3.8	62	l Nor.	_
No significant gra	ain yiel	d differ	ence be	tween varieties.	23.9	111111111111111111111111111111111111111	32	6.3	64	1 Nor.	-
						A.F. STORY	-				
1 A	-			LLOYD E. (COWAN	, WALD	ECK				
1A	5	4	A	Thatcher	29.4	101	33	8.0	61	2 Nor.	Bl.
				Selkirk	29.3	101	32	8.0	59	2 Nor.	-
				S-250 Rescue	22.9 25.6	104 104	36 35	7.7	59	2 Nor.	C+ -1
				Chinook	25.2	102	34	8.2	62 64	2 Nor. 1 Nor.	Stch
Necessary differen	nce-3	.4 bush	els.		23.2	102	34	0.0	04	1 1401.	
								-			
	5	4	В	EORGE A. JO	DHNSO						
,	3	4	Д	Thatcher Selkirk	30.8	106	35	_	62	2 Nor.	Į.
				S-250	27.8	105 106	34 36	_	60	2 Nor.	Į.
				Rescue	28.5	103	35		62 63	2 Nor. 2 Nor.	I. I.
				Chinook	27.7	103	35		64	1 Nor.	1.
Necessary differen	nce-2	.2 bush	els.				17.0		,		
			-								
1 A	5	5	G	ERHARD R.	OELKE						
1A	3	3	A	Thatcher	12.6	92	17	_	57	3 Nor.	-
				Selkirk S-250	10.2	97 93	16	_	52	5 Spec.	-
				Rescue	9.4	95	16 16	-	56 58	4 Nor. 2 Nor.	1
				Chinook	12.8	94	17		60	1 Nor.	
Necessary differen	nce—1	.6 bush	els.								
				NYAL M.	ADTEC	CODED	DE				
1A	5	6	A	Thatcher	42.6	CODER	36	9.0	65	1 NT	
				Selkirk	38.7	_	32	9.0	65 64	1 Nor. 1 Nor.	
				S-250	42.0	_	36	8.0	64	2 Nor.	Stch
				Rescue	43.0	_	36	9.0	65	1 Nor.	-
No significant gra	in viol	4 4:66.		Chinook	44.8	_	36	9.0	65	1 Nor.	_
No significant gra	illi ylei	d differ	ence be	tween varieties.							
1A			F	RANCIS G. N	TERCE	R GRAN	PITEN			H 1 / 1 / 1	-
	5	7	A	RANCIS G. M	1ERCE:	R, GRAY	BURN		64	1 Nor	
	5	7	A	Thatcher	28.4	R, GRAY	BURN	_	64	1 Nor.	_
	5	7	A	Thatcher Selkirk S-250	28.4 28.4 21.8	R, GRAY	BURN — —	=	64	1 Nor.	=
	5	7	A	Thatcher Selkirk S-250 Rescue	28.4 28.4 21.8 31.1	R, GRAY	BURN	Ξ	64 64 65	1 Nor. 1 Nor. 1 Nor.	=
Test damaged—Y			A	Thatcher Selkirk S-250 Rescue Chinook	28.4 28.4 21.8	R, GRAY	ZBURN	=	64 64	1 Nor. 1 Nor.	=
Test damaged—Y			A	Thatcher Selkirk S-250 Rescue Chinook	28.4 28.4 21.8 31.1	R, GRAY	BURN	Ξ	64 64 65	1 Nor. 1 Nor. 1 Nor.	
Test damaged—Y			A	Thatcher	28.4 28.4 21.8 31.1 31.6	E	E	E	64 64 65	1 Nor. 1 Nor. 1 Nor.	
Test damaged—Y			A	Thatcher	28.4 28.4 21.8 31.1 31.6	E	E		64 64 65 65	1 Nor. 1 Nor. 1 Nor. 1 Nor.	=======================================
	'ields n	ot used	A in zone	Thatcher	28.4 28.4 21.8 31.1 31.6	E	E		64 64 65 65 65	1 Nor. 1 Nor. 1 Nor. 1 Nor.	
	'ields n	ot used	A in zone	Thatcher	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.4 30.2	E	E		64 64 65 65 65	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor.	I.
	'ields n	ot used	A in zone	Thatcher. Selkirk. S-250	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.4 30.2 32.4	E	E		64 64 65 65 65 62 62 60 60	1 Nor. 1 Nor. 1 Nor. 1 Nor.	I.
B	ields n	ot used	A in zone	Thatcher. Selkirk. S-250 Rescue Chinook.e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.4 30.2	E	E		64 64 65 65 65	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 3 Nor.	I. G., 1
<u></u>	ields n	ot used	A in zone	Thatcher. Selkirk. S-250 Rescue Chinook.e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.4 30.2 32.4	E	E		64 64 65 65 65 62 62 60 60	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., I
B	ields n	8 d differ	A A rence be	Thatcher. Selkirk. S-250 Rescue Chinook e summary. GLEN D. St Thatcher. Selkirk. S-250 Rescue Chinook tween varieties.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2	BROWN	LEE		64 64 65 65 65 62 62 60 60	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., I
B	ields n	8 d differ	A A rence be	Thatcher. Selkirk. S-250 Rescue Chinook summary. GLEN D. ST Thatcher S-250 Rescue Chinook tween varieties. N M. and AR' Thatcher	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.4 30.2 32.4 31.2 THUR 22.6	BROWN	LEE = = = = = -		64 64 65 65 65 62 62 60 60 64	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., I I.
B	7ields n 5 ain yiel	8 d differ	A A A Sence be	Thatcher. Selkirk. S-250. Rescue Chinook e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook. tween varieties. N. M. and AR' Thatcher. Selkirk	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2 THUR 22.6 23.3	BROWN	LEE	9.0	64 64 65 65 65 62 62 60 60 64	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., 1 I. I.
B	7ields n 5 ain yiel	8 d differ	A A A Sence be	Thatcher. Selkirk. S-250 Rescue Chinook.e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook. tween varieties. N. M. and AR Thatcher. Selkirk. Selkirk. Selkirk. Selkirk.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2 THUR 22.6 23.3 21.6	BROWN	LEE	9.0 9.7 9.0	64 64 65 65 65 62 62 60 60 64	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., I I. I. Stch
B	7ields n 5 ain yiel	8 d differ	A A A Sence be	Thatcher. Selkirk. S-250 Rescue Chinook e summary. GLEN D. St. Thatcher. Selkirk. S-250 Rescue Chinook. tween varieties. N M. and AR' Thatcher. Selkirk. S-250 Rescue	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.4 30.2 32.4 31.2 THUR 22.6 23.3 21.6 26.1	BROWN	LEE	9.0 9.7 9.0 10.0	64 65 65 65 62 62 60 60 64	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., I I. I. Stch
BNo significant gra	7ields n 5 ain yiel 5	8 d differ	A A Tence be	Thatcher. Selkirk. S-250 Rescue Chinook.e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook. tween varieties. N. M. and AR Thatcher. Selkirk. Selkirk. Selkirk. Selkirk.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2 THUR 22.6 23.3 21.6	BROWN	LEE	9.0 9.7 9.0	64 65 65 65 62 62 60 60 64 63 63 63	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., I. I. Stch
No significant gra	7ields n 5 ain yiel 5	8 d differ	A A Tence be	Thatcher. Selkirk. S-250 Rescue Chinook e summary. GLEN D. St. Thatcher. Selkirk. S-250 Rescue Chinook. tween varieties. N M. and AR' Thatcher. Selkirk. S-250 Rescue	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.4 30.2 32.4 31.2 THUR 22.6 23.3 21.6 26.1	BROWN	LEE	9.0 9.7 9.0 10.0	64 65 65 65 62 62 60 60 64	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., I. I. Stch
No significant gra	7ields n 5 ain yiel 5	8 d differ 8	A A Tence be CILLIA B	Thatcher. Selkirk. S-250 Rescue Chinook e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook.tween varieties. N.M. and AR Thatcher. Selkirk. S-250 Rescue Chinook Chinook Chinook	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2 THUR 22.6 23.3 21.6 26.1 28.2	BROWNI	LEE	9.0 9.7 9.0 10.0	64 65 65 65 62 62 60 60 64	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. G., I. I. Stch
B	7ields n 5 ain yiel 5	8 d differ	A A Tence be CILLIA B	Thatcher. Selkirk. S-250 Rescue Chinook e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue. Chinook tween varieties. N M. and AR Thatcher. Selkirk. S-250 Rescue. Chinook LAWRENCE J Thatcher.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2 THUR 22.6 23.3 21.6 26.1 28.2	BROWNI	LEE	9.0 9.7 9.0 10.0	64 64 65 65 65 62 60 60 64 64 63 63 64 65	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor.	I. G., II. I. Stch
No significant gra	7ields n 5 ain yiel 5	8 d differ 8	A A Tence be CILLIA B	Thatcher. Selkirk. S-250. Rescue Chinook e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook. tween varieties. N. M. and AR Thatcher. Selkirk. S-250 Rescue Chinook. LAWRENCE J Thatcher. Selkirk.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2 7 THUR 22.6 26.1 28.2 7 1. DRY 37.9	BROWNI	LEE	9.0 9.7 9.0 10.0	64 65 65 65 66 60 60 64 64 63 63 63 64 65	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	I. G., II. I. Stch
No significant gra	7ields n 5 ain yiel 5	8 d differ 8	A A Tence be CILLIA B	Thatcher. Selkirk. S-250 Rescue Chinook e summary. GLEN D. SI Thatcher Selkirk. S-250 Rescue Chinook.tween varieties. N M. and AR Thatcher. Selkirk. S-250 Chinook LAWRENCE J Thatcher Selkirk.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2 THUR 22.6 23.3 21.6 26.1 28.2	BROWN	LEE	9.0 9.7 9.0 10.0	64 65 65 65 66 60 60 64 63 64 65	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	I. G., 1 I. I. Stch I. Stch I.
No significant gra	7ields n 5 ain yiel 5	8 d differ 8	A A Tence be CILLIA B	Thatcher. Selkirk. S-250. Rescue Chinook e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook. tween varieties. N. M. and AR Thatcher. Selkirk. S-250 Rescue Chinook. LAWRENCE J Thatcher. Selkirk.	28.4 28.4 21.8 31.1 31.6 MITH, 30.4 30.2 32.4 31.2 7 THUR 22.6 26.1 28.2 7 1. DRY 37.9	BROWNI	LEE	9.0 9.7 9.0 10.0	64 65 65 65 66 60 60 64 64 63 63 63 64 65	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	I. G., I I. I. Stehh I. Stehh I. I. I. I. I. I. I.
No significant gra	7ields n 5 ain yiel 5	8 d differ 8	A A Tence be CILLIA B	Thatcher. Selkirk. S-250 Rescue Chinook e summary. GLEN D. SI Thatcher. Selkirk. S-250 Rescue Chinook. tween varieties. N. M. and AR Thatcher. Selkirk. S-250 Rescue Chinook. LAWRENCE J Thatcher. Selkirk. S-250 Rescue Chinook	28.4 28.4 28.4 21.8 31.1 31.6 30.4 30.4 30.2 32.4 31.2 THUR 22.6 23.3 21.6 23.3 21.6 26.1 28.2	BROWNI	LEE	9.0 9.7 9.0 10.0	64 65 65 65 65 62 62 60 60 64 64 63 63 65 65	1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	I. G. I. I. Sto

Wheat Pool District 5-Continued

Cereal											
Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com- mercial	Grading
			M	ERVYN R. EL	LING	SON SEC	PETAN	7			
Α	5	9	B	Thatcher	29.7	103	33	8.5	63	1 Nor.	-
				Selkirk	31.0	102	32	7.7	62	1 Nor.	-
				S-250	29.0	103	35	8.2	62	1 Nor.	-
				Rescue	26.4	102	33	10.0	63	1 Nor.	-
No significant gra	in viel	d differ	rence be	Chinook tween varieties.	30.3	102	33	9.5	64	1 Nor.	_
					TIES	CHET CA	IDEDE	ANTE			
Α	5	10	A	and ARTHUR Thatcher	29.2	JAEL, CA	30	9.5	63	2 Nor.	I.
				Selkirk			30	10.0	63	2 Nor.	Î.
				S-250	25.2	-	34	10.0	63	2 Nor.	I.
				Rescue	28.9 25.7	_	33 34	8.0	64	2 Nor.	Į.
rest damaged by	hail-	Yields	not used	Chinook I in zone summa	ry.		34	9.0	64	2 Nor.	I.
						W THEFT	EDT				
Α	5	10	В	Thatcher		N, HERB	ERI	5.0	63	1 Nor.	-
			~	Selkirk	26.8			9.0	61	2 Nor.	I.
				S-250	22.8	-	-	9.0	62	2 Nor.	I.
				Rescue	23.4		-	9.0	64	1 Nor.	-
Necessary differen	ice—1	.5 bush	nels.	Chinook	27.0		-	10.0	65	1 Nor.	_
			V	VHEAT PO				;			
E	6	1	A	WILLIAM A. Thatcher	17.2	DER, LEV	VVAN	_	56	4 Nor.	_
				Selkirk	17.2 32.2	-		_	56 59 55	4 Nor.	D., 0
				S-250	26.4			-	55	No. 5	_
				Rescue	21.1	-	_	-	56 57	4 Nor.	-
Necessary differen	ice—2	.9 busl	nels.	Chinook	18.8	_		-	57	3 Nor.	_
		-		ATTITUTE TITES	TOWE	TEL DAY	YAY			-	
2A	6	2	A	ALVIN WES		107	25	4.8	62	2 Nor.	I.
W. S		-	**	Selkirk	46.2	105	30	6.3	62	3 Nor.	Ď., ¢
				S-250	33.0	106	30	5.0	62	3 Nor.	D., (
				Rescue	34.3	107	25	6.0	62	2 Nor.	I.
Necessary differen	ice—2	.6 busl	hels.	Chinook	40.0	107	25	3.8	64	1 Nor.	_
	-		-	HOWARD W	POSS	NATT EC	TONE				
2E	6	3	A	HOWARD W. Thatcher		, WILLES	TONE		63	3 Nor.	D., 0
				Selkirk	37.8	_	_	_	61	3 Nor.	D., 0
				S-250	23.1	-	-	_	61	4 Nor.	D., (
				Rescue	24.0	_	-	-	62	3 Nor.	D., C D., C D., C
Necessary differen	ice_3	7 bus	nels.	Chinook	24.4	-	_	_	63	3 Nor.	D., C
Treecodary differen	3	. 1 240	ACAO:								
				EDER S	10117	a A =====	V W1 A				
DE.	6	4	A	FRED P. PF	TRUI	C, AVON	LEA 25	9.7	63	1 Nor	
2E	6	4	A	Thatcher	24.4	C, AVON	25	9.7	63 62	1 Nor. 1 Nor.	=
2E	6	4	A	Thatcher Selkirk	24.4 25.8	C, AVON	LEA 25 24 26	9.7 9.5	63 62 63	1 Nor. 1 Nor. 2 Nor.	_ Stcl
2E	6	4	A	Thatcher Selkirk S-250 Rescue	24.4 25.8 25.0 23.5	C, AVON	25 24 26 26	9.7 9.5 9.5	62 63 64	1 Nor. 2 Nor. 1 Nor.	_ Stcl
				Thatcher Selkirk S-250 Rescue Chinook	24.4 25.8 25.0 23.5 24.6	C, AVON	25 24 26	9.7 9.5	62 63	1 Nor. 2 Nor.	Stel
			erence be	Thatcher Selkirk S-250 Rescue Chinook etween varieties.	24.4 25.8 25.0 23.5 24.6	Ē	25 24 26 26 25	9.7 9.5 9.5 10.0	62 63 64	1 Nor. 2 Nor. 1 Nor.	Stel
No significant gra	ain yie	ld diffe	erence be	Thatcher Selkirk S-250 Rescue Chinook etween varieties.	24.4 25.8 25.0 23.5 24.6 KERST	Ē	25 24 26 26 25	9.7 9.5 9.5 10.0	62 63 64 65	1 Nor. 2 Nor. 1 Nor. 1 Nor.	Stel
No significant gra	ain yie		erence be	Thatcher	24.4 25.8 25.0 23.5 24.6 KERST 47.2	Ē	25 24 26 26 25	9.7 9.5 9.5 10.0	62 63 64 65	1 Nor. 2 Nor. 1 Nor. 1 Nor.	=
No significant gra	ain yie	ld diffe	erence be	ThatcherSelkirkS-250escueChinooketween varieties. OBERT W. OI ThatcherSelkirkS-250	24.4 25.8 25.0 23.5 24.6 KERST 47.2	Ē	25 24 26 26 25	9.7 9.5 9.5 10.0	62 63 64 65	1 Nor. 2 Nor. 1 Nor. 1 Nor.	Stel
No significant gra	ain yie	ld diffe	erence be	ThatcherSelkirkS-250RescueChinooketween varieties. OBERT W. OI ThatcherSelkirkS-250Rescue	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8	Ē	25 24 26 26 25	9.7 9.5 9.5 10.0	62 63 64 65 63 62 63 63	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor.	
No significant gre	ain yie	ld diffe	erence be	ThatcherSelkirkS-250escueChinooketween varieties. OBERT W. OI ThatcherSelkirkS-250	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9	Ē	25 24 26 26 25	9.7 9.5 9.5 10.0	62 63 64 65 63 62 63	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor.	
No significant gre	ain yie	ld diffe	erence be	Thatcher. Selkirk. S-250 Rescue Chinook etween varieties. OBERT W. 01 Thatcher. Selkirk. S-250 Rescue Chinook	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4	FROM, A	25 24 26 26 25 RCHIVE	9.7 9.5 9.5 10.0	62 63 64 65 63 62 63 63	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor.	
No significant gra	6 nce—3	5 5 3.9 bus	A R	Thatcher. Selkirk. S-250	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4	FROM, AN	25 24 26 26 25 RCHIVE	9.7 9.5 9.5 10.0	62 63 64 65 63 62 63 63 65	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor.	
No significant gra	6 nce—3	ld diffe	erence be	Thatcher. Selkirk. S-250. Rescue Chinook ttween varieties. OBERT W. OI Thatcher. S-250 Rescue Chinook KENNETH F. Thatcher	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4	FROM, AN	25 24 26 26 25 RCHIVE	9.7 9.5 9.5 10.0	62 63 64 65 63 62 63 63 65	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	
No significant gra	6 nce—3	5 5 3.9 bus	A R	Thatcher. Selkirk. S-250. Rescue Chinook. ttween varieties. OBERT W. OI Thatcher. Selkirk. S-250. Rescue Chinook. Chinook. CHINETH F. Thatcher. Selkirk. S-250.	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4 McKE 15.2 16.8 13.7	FROM, AN	25 24 26 26 25 RCHIVE	9.7 9.5 9.5 10.0	62 63 64 65 63 62 63 63 65	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	
No significant gra	6 nce—3	5 5 3.9 bus	A R	Thatcher. Selkirk. S-250 Rescue Chinook etween varieties. OBERT W. 01 Thatcher Selkirk S-250 Rescue Chinook KENNETH F. Thatcher Selkirk S-250 Rescue	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4 McKE 15.2 16.8 13.7 18.8	FROM, AN	25 24 26 26 25 RCHIVE	9.7 9.5 9.5 10.0	62 63 64 65 63 62 63 63 65 61 63 62 63 62 63	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	
No significant gra 1A Necessary difference	6 nce—3	5 3.9 bus	A R	Thatcher. Selkirk. S-250. Rescue Chinook. ttween varieties. OBERT W. OI Thatcher. Selkirk. S-250. Rescue Chinook. Chinook. CHINETH F. Thatcher. Selkirk. S-250.	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4 McKE 15.2 16.8 13.7	FROM, AN	25 24 26 26 25 RCHIVE	9.7 9.5 9.5 10.0	62 63 64 65 63 62 63 63 65	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	
No significant gra 1A Necessary difference 2E Necessary difference	6 nce—3	5 3.9 bus 5	hels.	Thatcher. Selkirk. S-250. Rescue Chinook tween varieties. OBERT W. OI Thatcher. Selkirk. S-250. Rescue Chinook KENNETH F. Thatcher. Selkirk. S-250. Rescue Chinook	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4 McKE 15.2 16.8 13.7 18.8 16.8	PROM, AND THE PROPERTY OF THE	25 24 26 26 26 25 RCHIVE	9.7 9.5 9.5 10.0	63 64 65 63 63 63 63 65 61 63 62 63 63 63 63	1 Nor. 2 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	
No significant gra 1A Necessary difference 2E Necessary difference	6 nce—3	5 3.9 bus	hels.	Thatcher. Selkirk. S-250 Rescue Chinook ttween varieties. OBERT W. OI Thatcher Selkirk. S-250 Rescue Chinook KENNETH F. Thatcher Selkirk. S-250 Rescue Chinook KENNETH F. Thatcher Selkirk. S-250 Rescue Chinook	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4 McKE 15.2 16.8 13.7 18.8 16.8	FROM, AI	25 24 26 26 26 25 RCHIVE	9.7 9.5 9.5 10.0	63 64 65 63 63 63 65 61 63 63 63 63 63 63	1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. I
No significant gra 1A Necessary difference 2E Necessary difference 3C	6 nce—3	5 3.9 bus 5	hels.	Thatcher. Selkirk. S-250. Rescue Chinook. theren varieties. OBERT W. OI Thatcher. Selkirk. S-250. Rescue Chinook KENNETH F. Thatcher. Selkirk. S-250. Rescue Chinook Rescue Chinook KENNETH F. Thatcher. Selkirk. S-250. Rescue. Chinook	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4 MeKE 15.2 16.8 13.7 18.8 16.8	PROM, AI	25 24 26 26 25 RCHIVE 	9.7 9.5 9.5 10.0	63 64 65 63 63 63 63 65 61 63 63 63 63 63 63 63 63 63 63 63 64 65	1 Nor. 2 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	
No significant gra 1A Necessary difference 2E Necessary difference	6 nce—3	5 3.9 bus 5	hels.	Thatcher. Selkirk. S-250. Rescue Chinook ttween varieties. OBERT W. OI Thatcher Selkirk. S-250. Rescue Chinook KENNETH F. Thatcher Selkirk. S-250 Rescue Chinook Chinook RENNETH F. Thatcher Selkirk. S-250 Rescue Chinook RONALD R. E Thatcher Selkirk. S-250 RONALD R. E Selkirk. S-250	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4 MeKE 15.2 16.8 13.7 18.8 16.8	PROM, AI	25 24 26 26 26 25 RCHIVE 	9.7 9.5 9.5 10.0 E ——————————————————————————————————	62 63 64 65 63 63 63 63 63 63 63 63 63 63 63 63 63	1 Nor. 2 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. I
No significant gra 1A Necessary difference 2E Necessary difference	6 nce—3	5 3.9 bus 5	hels.	Thatcher. Selkirk. S-250. Rescue Chinook. theren varieties. OBERT W. OI Thatcher. Selkirk. S-250. Rescue Chinook KENNETH F. Thatcher. Selkirk. S-250. Rescue Chinook Rescue Chinook KENNETH F. Thatcher. Selkirk. S-250. Rescue. Chinook	24.4 25.8 25.0 23.5 24.6 KERST 47.2 41.8 37.9 35.8 44.4 McKE 15.2 16.8 13.7 18.8 16.8	PROM, AI	25 24 26 26 25 RCHIVE 	9.7 9.5 9.5 10.0	63 64 65 63 63 63 63 65 61 63 63 63 63 63 63 63 63 63 63 63 64 65	1 Nor. 2 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. I

Wheat Pool District 6-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel		Grading remarks
			WIL	LIAM D. HE	ENAN.	GRAND	COULE	CE			
2E	6	7	C	Thatcher	25.0	91	30	8.0	59	2 Nor.	
				Selkirk	32.2	91	27	9.0	62	1 Nor.	-
				S-250	25.6	93	33	7.0	57	3 Nor.	_
				Rescue	28.6	91	32	7.0	60	1 Nor.	-
Necessary differer	ice—3	.3 bush	els.	Chinook	27.9	93	31	7.0	62	1 Nor.	
			A	RTHUR J. BI	AKLE	Y. SINT.	ALUTA				
3C	6	8	A	Thatcher	41.9	_	-	9.0	61	2 Nor.	Bl
				Selkirk	57.2	_	-	9.0	63	2 Nor.	I.
				S-250	39.7	-	-	9.0	61	2 Nor.	I.
				Lee	41.6	-	-	9.0	61	2 Nor.	I.
				Nugget	30.3	-	-	3.0	60	2 C.W.	-
Necessary differen	ice—3	.9 bush	nels.					Middle	17 5-00	man Mile	Value of
20	,			W. BARRY S			RLIE			2 37	0
3C	6	9	A	Thatcher	25.9	-	10.77	-	60	3 Nor.	G. D.,G
				Selkirk	34.6	_			61	4 Nor.	D.,G
				S-250	25.3 29.6	_	000	_	60 61	3 Nor. 4 Nor.	G.
				Lee Nugget	25.2				59	3 C.W.	D.,G
Necessary differen	nce—2	.9 bush	nels.	Nugget	23.2		lanvi,		39	3 C.W.	
			E	ARL P. BEAT	TIE,	TREGAR	VA				
£	6	10	A	Thatcher	23.3	1111	-		56	4 Nor.	-
				Selkirk	23.5	-	-	-	60	2 Nor.	Bl.
				S-250	20.4		-	-	59	2 Nor.	
				Rescue	21.2		-	-	57	3 Nor.	_
				Chinook	20.4		-		57	3 Nor.	
No significant gra	ain yie	ld diffe	rence be	tween varieties.							
an	,	10		KENNETH G		NER, DI	SLEY		62	2 1	,
2B	6	10	В	Thatcher	40.6		-		62	2 Nor.	I.
				Selkirk	41.8	-	T		62	3 Nor.	D.,G
				S-250	35.6	_	-	-	61	3 Nor.	D.,G
				Rescue	35.6	_	TP T	-	62 63	2 Nor. 2 Nor.	I. Bl.
Necessary differen	7	2 hual	ala	Chinook	42.2				03	2 1401.	DI.

7 A Warren Crofford, Regina.

WHEAT POOL DISTRICT 7

				ALPHONSE C.	JAENE	N, FAIR	LIGHT	4 2 0			
3A	7	1	A	Thatcher	15.5	110	40	10.0	60	3 Nor.	D., G.
				Selkirk	18.8	114	39	10.0	61	3 Nor.	D., G. D., G. D., G.
				S-250	14.6	112	43	9.7	60	3 Nor.	D., G.
				Lee	21.4	109	38	8.7	62	3 Nor.	D., G.
				Nugget	13.0	108	36	6.2	59	3 C.W.	
ecessary difference	e-3.8	B bushe	ls.								
				L. JACK L	EMOIN	E. MOO	SOMIN				
3B	7	2	A	Thatcher	19.5	89	38	10.0	58	3 Nor.	I.
				Selkirk	32.5	87	38	10.0	61	3 Nor.	I.
				S-250	19.1	90	40	10.0	59	3 Nor.	I.
				Lee	26.4	91	38	10.0	61	2 Nor.	Ĩ.
				Nugget	17.9	92	38	9.0	56	4 C.W.	
Necessary difference	ce-2.	7 bushe	ls.	- 1-08				***	11.7		
				DAVID F. GI	RIFFIT	H, VANI	DURA				
3A	7	3	A	Thatcher	21.4				61	2 Nor.	I.
				Selkirk	25.2		_	_	62	2 Nor.	I.
				S-250	17.0	-	THE STATE OF THE S		60	2 Nor.	I.
				Lee	26.2	-			62	2 Nor.	I.
				Nugget	17.8	_	-	_	59	3 C.W.	-
Necessary difference	ce—3.	6 bushe	els.								
				ALFRED C. PA		WINDT	HORST				
3A	7	4	A	Thatcher	21.9	99	44	10.0	59	2 Nor.	-
				Selkirk	41.9	98	39	10.0	62	2 Nor.	I.
				S-250	24.7	101	42	10.0	56	4 Nor.	
				Lee	26.9	96	42	10.0	59	2 Nor.	-
				Lee Nugget		96 100	42 42	10.0	59 51	2 Nor. 6 C.W.	_

Wheat Pool District 7—Continued Yield Days Plant bus. seed height

per acre

Test designation

Varieties

Dist. Sub-

Cereal Variety Zone Days seed- height ing to in Straw ured were meas- cripening inches strength bushel grades remarks

			EDWARD J. D	ALEY,	STOUG	HTON				
3A	7	5 A	Thatcher Selkirk S-250	24.9 31.3 21.0 23.0	107 106 112 112	44 44 45 45	10.0 10.0 9.2 6.2	61 63 59 60	2 Nor. 3 Nor. 3 Nor. 3 Nor.	I. D., G. D., G. D., G.
1:66	- 0	0.111.	Lee Nugget	24.5	105	45	5.2	58	3 C.W.	D., G.
Necessary difference	e-2.	9 bushels.								
2 A	7	5 B	C. DALE WI	GGINS 12.3	, FILLM 118	ORE 34	9.3	53	No. 5	1
3A	'	Э Б	Selkirk	27.6	118	36	10.0	60	3 Nor.	I.
			S-250 Lee	13.6 16.4	114 113	38 34	9.0 7.5	53 57	No. 5 3 Nor.	_
			Nugget	11.5	112	37	8.0	52	6 C.W.	_
Necessary difference	ce-3.	7 bushels.			•					
	_		PETER J.				10.0	50		
3A	7	6 A	Thatcher	17.9 30.6	102 102	39 40	10.0 10.0	59 61	3 Nor. 3 Nor.	D., G.
			S-250	16.4	109	43	10.0	58 58	3 Nor.	D., G. D., G.
			Lee Nugget	16.0	102 102	36 40	3.0	46	4 Nor. Feed	D., G.
Necessary difference	ce—2.	6 bushels.					2.00			
and the latest terminal termin			R. JIM H		VOLSELI	EY				
3A	7	7 A	Thatcher Selkirk	42.2 59.8	_	40 42	6.8	59 62	3 Nor.	I.
			S-250	39.7	_	44	7.0	59	2 Nor. 3 Nor.	I.
			Lee Nugget	46.8 35.5	_	36 40	4.0 3.0	59 55	3 Nor. 5 C.W.	I.
Necessary difference	e-3.	3 bushels.	14ugget	33.3		40	3.0	33	J C. W.	
The spile of			KENNETH D.	HACK.	ROCAN	VILLE	JE O			- 01
3B	7	8 A	Thatcher	44.7	114	35	7.3	62	2 Nor.	I.
			Selkirk S-250	53.3 45.9	115 115	37 39	8.5 9.0 7.0	62 61	2 Nor. 2 Nor. 2 Nor.	I. I.
			Lee	43.4	113	35	7.0	62	2 Nor. 2 C.W.	Î.
Necessary difference	ce—2.	7 bushels.	Nugget	32.0	113	30	4.3	60	2 C.W.	-
			DOUGLAS C.	CTADI	ZE CDV	DILL	7			
3B	7	9 A	Thatcher	4.3	LE, SI I	35	4.8	51	No. 6	_
			Selkirk	8.3	_	33	10.0	58 53	3 Nor.	D., G.
			S-250 Lee	8.4	_	36 33	9.0 8.5 5.5	56	No. 5 4 Nor.	_
Plot damaged—Yie	alde n	ot used in so	Nugget	2.1	-	34	5.5	49	Feed	
- Tot damaged— The	ius II	ot used III 201			~~~					
20	7	10 A	A. GORDON I	23.8	115	35	10.0	59	3 Nor.	
3C	7	10 A	Selkirk	33.0	117	42	10.0 10.0	62	3 Nor.	I. D., G.
			S-250	21.9 27.4	115 112	36 35	10.0 10.0	61 62	3 Nor. 3 Nor.	D., G. D., G.
			Lee Nugget	20.4	115	34	5.0	59	3 C.W.	D., G. I.
Necessary difference	ce—2.	6 bushels.					1 1 1 1			
			HERBERT H.							
3C	7	11 A	Thatcher Selkirk	26.0 41.5	113 113	43 37	7.2	58 61	3 Nor. 3 Nor.	I. D., G.
			S-250	18.7	113	45	7.2 8.5 7.5 6.5	54	No. 5	I. G.
			Lee Nugget	31.9 14.8	110 110	40 45	6.5 3.2	56 45	4 Nor. Feed	_
Necessary difference	ce-4.	8 bushels.	1145800	14.0	110	45	3.2	73	1 ccu	
							- 1			
		,	WHEAT PO	OL I	DISTR	ICT 8				
		11000	IOE GERT A	CH IA	NCEND	IIPG		A.E.	court :	-
3B	8	1 A	JOE GERLA Thatcher	31.1	- AGENB	46	10.0	59	4 Nor	D., G.
~	0	1 1	Selkirk	49.9	-	46	10.0	62	4 Nor. 3 Nor.	D., G. D., G.
			S-250 Lee	28.2 37.1	_	46 44	9.0 7.0	59 59 52	3 Nor. 4 Nor. 6 C.W.	D., G. D., G.
1100			Nugget	19.3	_	47	0.0	52	6 C.W.	
Necessary difference	e-5.	2 bushels.								

Wheat Pool District 8-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com- mercial	Grading
				PATRICK RO	ONEY	SALTC	OATS				
3B	8	2	A	Thatcher Selkirk S-250 Lee Nugget	11.3 21.9 8.1 15.3 1.7	Ē			52 59 48 54 (A)	5 Spec. 2 Nor. Feed 4 Spec. Feed (E)	=
Necessary differen	nce—2	.5 bush	nels.	14ugget				1 11 12	(11)	recu (E)	
The state of			1	MARVIN HAI	YK, F	BIRMING	HAM				
3C	8	3	A	Thatcher Selkirk S-250 Lee	23.7 43.8 22.6 27.9 20.1	108 107 106 107 108	31 25 28 23 30	10.0 9.0 8.0 6.0 10.0	58 62 57 60 54	3 Nor. 3 Nor. 4 Nor. 3 Nor.	I. D., G D., G D., G
Necessary differen	nce—3	7 bush	els.	Nugget	20.1	100	30	10.0	34	5 C.W.	1600000
THE COURT	(4)		GEO	ORGE E. LAZ	URKO.	WILLO	WBROO	K	1100		
3C	8	4	A	Thatcher Selkirk S-250 Lee Nugget	13.7 18.8 15.2 14.0 12.4	=======================================			60 61 60 61 55	3 Nor. 3 Nor. 3 Nor. 3 Nor. 5 C.W.	D., G. G. D., G. G.
o significant gra	in yiel	d differ	rence be			in rough	-				
all a select	1 6			HNNY P. KA							
3B	8	5	A	Thatcher Selkirk S-250 Lee Nugget	28.8 35.5 27.1 27.8 20.8	115 115 117 117 116	39 38 40 39 38	8.0 8.3 8.0 5.0 3.3	62 62 61 58 55	3 Nor. 3 Nor. 3 Nor. 4 Nor. 5 C.W.	I. I. D., G.
Necessary differen	nce-6.	6 bush	els.	1146800	20.0	110	30	3.3		3 C.W.	
			J	OHN N. SWET	LESH	NOFF, C	ANORA				
3B	8	6	A	Thatcher Selkirk S-250 Lee Nugget	28.8 42.5 27.5 29.3 22.6	107 109 109 105 104	36 41 44 38 42	10.0 10.0 10.0 8.0 5.8	59 62 57 60 55	3 Nor. 3 Nor. 3 Nor. 3 Nor. 5 C.W.	I. I. I.
Necessary differen	nce—3.	1 bush	els.	1146600	22.0	104	72	3.0		3 0.111	
The same of			F	LORIAN B. N		owski,	RAMA				
3B	8	7	A	Thatcher Selkirk S-250 Lee Nugget	24.7 20.6 24.0 22.9 23.5	103 103 113 110 107	36 37 42 37 36	10.0 10.0 9.7 9.0 7.7	60 61 61 61 59	3 Nor. 3 Nor. 3 Nor. 3 Nor. 3 C.W.	D., G D., G D., G
No significant gra	in yiel	d differ	rence be	tween varieties.	25.5	101	30	044		3 0.111	
			-	ALEX GEI							
3C	8	7	С	Thatcher Selkirk S-250 Lee Nugget	15.3	108 108 108 107 107	39 38 44 36 39	7.8 9.0 8.8 6.5 3.0	56 59 60 56 55	4 Nor. 3 Nor. 3 Nor. 4 Nor. 5 C.W.	D., G. D., G.
Necessary differer	ice—3	9 bush	els.	11	1 9	701		100	200		
2D	8	8	A	ONALD W. SN Thatcher	32.7	RASS, ST	URGIS 39	10.0	61	3 Nor.	I.
3B	8	0	A	Selkirk S-250 Lee Nugget	46.6 30.4 32.0 21.6	104 106 107 105 104	40 40 38 38	10.0 10.0 10.0 8.3 7.0	63 61 61 56	3 Nor. 3 Nor. 3 Nor. 4 C.W.	I. I. I.
Necessary differen	nce—4.	0 bush	els.	Trugget	21.0	104	30	1.0	30	4 C.W.	
3B	8	10	A	MAX I Thatcher Selkirk S-250 Lee	15.6 34.0 17.7 19.7	ARRAN	Ξ	=	55 62 54 58	No. 5 4 Nor. 4 Nor. 4 Nor.	D., G.
Necessary differen	ice—12	2.4 bus	hels.	Nugget	5.5	0.7	0.57	_	49	Feed	_
	-								- 47		
Tests d	liscard 8	led on	accoun A	t of damage b Gerald L. Anal			, nail, (irought o	or other	causes	
					,						

(A) Insufficient to calculate bushel weight.(E) Estimated grade.

WHEAT POOL DISTRICT 9

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com- mercial	Grading
	100000	111111111111111111111111111111111111111	3336	GERALD T	-			V.	4	0	
3C	9	1	A	Thatcher	15.0	II, VASIVI	42	10.0	60	3 Nor.	Bl., I
· · · · · · · · · · · · · · · · · · ·	,		-	Selkirk	15.4	_	41	10.0	62	4 Nor.	F.
				S-250	9.2	-	43	10.0	60	4 Nor.	F. F.
				Lee	15.8	_	41	9.2 7.5	60	3 Nor.	I.
Necessary differen	nce-2	5 bush	els.	Nugget	12.6	_	45	7.5	57	4 C.W.	-
	-			DANIEW W. W	AT DE	CCEP D	VEADT			10.30.700	
3C	9	2	A	Thatcher	41.6	100	39	9.0	60	3 Nor.	I.
		-	01.	Selkirk	45.7	100	37	10.0	62	4 Nor.	Ď., G
				S-250		102	42	9.3	61	4 Nor.	D. G
				Lee Nugget	44.4 36.9	100 99	39 40	4.0 5.0	60 58	4 Nor. 4 C.W.	D., G
Necessary differen	nce-4	.7 bushe	els.	1446800	30.7	,,	40	3.0	30	4 C. W.	D., G
				GASPER OF	RBAN.	PUNNIC	HY			-	
3C	9	3	A	Thatcher	25.9	_	40	6.0	60	3 Nor.	I.
				Selkirk	39.3	-	38	7.0	62	3 Nor.	I.
				S-250	34.9	_	43 40	7.0 8.0	61 59	3 Nor.	I.
				Lee Nugget	17.0	_	44	6.0	58	4 Nor. 4 C.W.	D., G I.
Test damaged by	hail-	yields n	ot used	in zone summa						, 0	. 1
				LEONARD W	, FISE	IER. SIL	TON	F-5911514511	to the section	17079 21150	
3C	9	4	A	Thatcher	46.2	109	42	8.5	63	2 Nor.	I.
				Selkirk	53.9	111	42	9.0	63	2 Nor.	Į.
				S-250 Lee	41.5	110 109	43 41	9.3 7.0	63 62	2 Nor. 2 Nor.	I. I.
				Nugget	47.7	111	42	5.0	64	i C.W.	
Necessary differen	nce-3	.4 bushe	els.								
				DAVID J.	McKA	Y, GOVA	N				
2B	9	5	A	Thatcher	45.7		- 36	6.8	61	2 Nor.	BI.
				Selkirk	45.3	-	35	7.0	60	3 Nor.	Į.
				S-250 Rescue	32.1		36 34	7.5 6.3	61	3 Nor. 1 Nor.	I.
3.5	6 B		61	Chinook	38.2	-	34	5.0	62	1 Nor.	_
Necessary differen	nce-3	.5 bushe	els.	300							
			1	ROBERT T. H	ALSTE	AD, NOE	OMIS				
2B	9	6	A	Thatcher	39.4	101	37	6.8	63	2 Nor.	I.
				Selkirk	42.2	101	37	7.3	62	2 Nor.	I.
				S-250 Rescue	41.3	101 100	40 41	9.0	63 63	2 Nor. 1 Nor.	I.
				Chinook	39.9	101	41	8.5	65	1 Nor.	_
No significant gra	ain yiel	d differe	ence be	tween varieties.							
- W-71	-	- 1	RON	ALD L. MOR	NINGS	TAR. LO	CKWO	OD	2.50		
2B	9	6	В	Thatcher	27.2 23.0	106	34	7.0 5.0	61	2 Nor.	BI.
				Selkirk	23 0						
				C 250	20.0	109	32	5.0	61	2 Nor.	
				S-250	28.2	108	35	7.0	62	2 Nor. 2 Nor.	
				S-250 Rescue Chinook	28.2 34.2 29.8			7.0 9.0 7.0		2 Nor.	
Necessary differen	nce—2	5 bushe	els.	S-250 Rescue	28.2	108 108	35 35	7.0	62 64	2 Nor. 2 Nor. 1 Nor.	Stch Stch I.
	nce—2	0.	-	S-250 Rescue Chinook	28.2 34.2 29.8	108 108 107	35 35 37 MORE	7.0 9.0 7.0	62 64 64	2 Nor. 2 Nor. 1 Nor. 2 Nor.	Stch I.
	nce—2	.5 bushe	-	S-250	28.2 34.2 29.8 DENMA 57.0	108 108 107 AN, RAY	35 35 37 MORE 39	7.0 9.0 7.0	62 64 64	2 Nor. 2 Nor. 1 Nor. 2 Nor.	Stch I.
	, 83	0.	1	S-250	28.2 34.2 29.8 DENMA 57.0 66.7	108 108 107 AN, RAY 115 117	35 35 37 MORE 39 39	7.0 9.0 7.0 10.0 10.0	62 64 64 62 62	2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor. 3 Nor.	Stch I.
	, 83	0.	1	S-250	28.2 34.2 29.8 DENMA 57.0 66.7 54.1	108 108 107 AN, RAY 115 117 116	35 35 37 MORE 39	7.0 9.0 7.0 10.0 10.0 10.0	62 64 64 62 62 62	2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor. 3 Nor. 3 Nor.	Stch I.
3C	9	7	A	S-250	28.2 34.2 29.8 DENMA 57.0 66.7	108 108 107 AN, RAY 115 117	35 35 37 MORE 39 39 40	7.0 9.0 7.0 10.0 10.0	62 64 64 62 62	2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor. 3 Nor.	Stch I.
3C	9	7	A	S-250	28.2 34.2 29.8 DENM 57.0 66.7 54.1 59.1	108 108 107 AN, RAY 115 117 116 116	35 35 37 MORE 39 40 39	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 64 64 62 62 62 62 63	2 Nor. 1 Nor. 2 Nor. 2 Nor. 3 Nor. 3 Nor. 3 Nor.	I. D., G. D., G.
3C	9	7	A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. 1	28.2 34.2 29.8 57.0 66.7 54.1 59.1 53.7	108 108 107 AN, RAY 115 117 116 116 116	35 35 37 MORE 39 40 39 40 39 42	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 64 64 62 62 62 63 62	2 Nor. 1 Nor. 2 Nor. 2 Nor. 3 Nor. 3 Nor. 3 C.W.	I. D., G D., G D., G I.
3C	9	7	A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher	28.2 34.2 29.8 DENMA 57.0 66.7 54.1 59.1 53.7 HAMII 20.4	108 108 107 AN, RAY 115 117 116 116 116	35 35 37 MORE 39 40 39 40 39 42	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 64 64 62 62 62 63 62	2 Nor. 1 Nor. 2 Nor. 2 Nor. 3 Nor. 3 Nor. 3 C.W.	I. D., G. D., G. D., G. I.
3C	9 nce—2.	7 .4 bushe	A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher Selkirk	28.2 34.2 29.8 57.0 66.7 54.1 59.1 53.7	108 108 107 AN, RAY 115 117 116 116 116	35 35 37 MORE 39 40 39 40 39 42	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 64 64 62 62 62 63 62	2 Nor. 1 Nor. 2 Nor. 2 Nor. 3 Nor. 3 Nor. 3 C.W.	I. D., G D., G D., G I. I. I.
3C	9 nce—2.	7 .4 bushe	A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk. S-250 Lee Nugget ROBERT K. I Thatcher Selkirk S-250	28.2 34.2 29.8 DENMA 57.0 66.7 54.1 59.1 53.7 HAMII 20.4	108 108 107 AN, RAY 115 117 116 116 116	35 35 37 MORE 39 40 39 40 39 42	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 64 64 62 62 63 62 62 62 62 62 62 62	2 Nor. 2 Nor. 2 Nor. 2 Nor. 3 Nor. 3 Nor. 3 C.W.	Stch I. D., G. D., G. D., G. I. I. I. I. I. I.
Necessary difference	9 nce—2.	7 .4 bushe 8	A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher. Selkirk S-250 Rescue Rescue Chinook	28.2 34.2 29.8 57.0 66.7 54.1 59.1 53.7 HAMII 20.4 23.0 25.7	108 108 107 AN, RAY 115 117 116 116 116	35 35 37 MORE 39 40 39 40 39 42	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 64 64 62 62 62 63 62 61 62 62 62	2 Nor. 2 Nor. 2 Nor. 2 Nor. 3 Nor. 3 Nor. 3 C.W.	I. D., G. D., G. D., G. I.
Necessary difference	9 nce—2.	7 .4 bushe 8	A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher Selkirk S-250 Rescue Chinook tween varieties.	28.2 34.2 29.8 DENMA 57.0 66.7 54.1 59.1 53.7 HAMII 20.4 23.0 25.7 26.0 19.6	108 108 107 AN, RAY 115 117 116 116 116 	35 35 37 MORE 39 40 39 42 ROY ————————————————————————————————————	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 64 64 62 62 63 62 62 62 62 62 62 62	2 Nor. 2 Nor. 2 Nor. 2 Nor. 3 Nor. 3 Nor. 3 C.W.	Stch I. D., G D., G D., G I. I. I.
Necessary differences Necessary differences B. Mosignificant grant	9 nce—2. 9	7 4 bushe 8	A A A A A A A A A A A A A A A A A A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher Selkirk S-250 Rescue Chinook tween varieties.	28.2 34.2 29.8 DENMA 57.0 66.7 59.1 59.1 53.7 HAMII 23.0 25.7 26.0 19.6	108 108 107 AN, RAY 115 117 116 116 116 	35 35 37 MORE 39 40 39 42 ROY ————————————————————————————————————	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 62 62 62 62 63 62 62 62 63 62 62 63	2 Nor. 2 Nor. 1 Nor. 2 Nor. 3 Nor. 3 Nor. 3 C.W. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. D., G D., G D., G I.
Necessary difference 2B	9 nce—2. 9	7 .4 bushe 8	A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher Selkirk S-250 Rescue Chinook tween varieties. THOMAS CO Thatcher	28.2 34.2 29.8 DENMA 57.0 66.7 54.1 59.1 53.7 HAMII 20.4 23.0 25.7 26.0 19.6 OPER, 30.0	108 108 107 AN, RAY 115 117 116 116 116 	35 35 37 MORE 39 40 39 42 ROY ————————————————————————————————————	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 62 62 62 62 63 62 61 62 62 62 63 62	2 Nor., 1 Nor., 2 Nor., 3 Nor., 3 Nor., 3 Nor., 3 Nor., 3 Nor., 2 Nor.	I. D., G D., G D., G I.
Necessary difference	9 nce—2. 9	7 4 bushe 8	A A A A A A A A A A A A A A A A A A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher Selkirk S-250 Rescue Chinook tween varieties. THOMAS CO Thatcher Selkirk	28.2 34.2 29.8 DENMA 57.0 66.7 54.1 59.1 53.7 HAMII 20.4 23.0 25.7 26.0 19.6	108 108 107 AN, RAY 115 117 116 116 116 	35 35 37 MORE 39 40 39 42 ROY ————————————————————————————————————	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 62 62 62 63 62 62 62 63 62 62 63 62 62 63 63	2 Nor., 1 Nor., 2 Nor., 3 Nor., 3 Nor., 3 Nor., 3 Nor., 2 Nor.	Stch I. D., G D., G D., G D., G I. I. I. I. I. I.
Necessary difference 2B	9 nce—2. 9	7 4 bushe 8	A A A A A A A A A A A A A A A A A A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher Selkirk S-250 Rescue Chinook tween varieties. THOMAS CO Thatcher	28.2 34.2 29.8 DENMA 57.0 66.7 54.1 59.1 53.7 HAMII 20.4 23.0 25.7 26.0 19.6 OPER, 30.0 40.6 29.6 34.5	108 108 107 AN, RAY 115 117 116 116 116 	35 35 37 MORE 39 40 39 42 ROY ————————————————————————————————————	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 62 62 62 63 62 63 62 62 63 62 62 63 62 62 63 62	2 Nor. 2 Nor. 1 Nor. 2 Nor. 3 Nor. 3 Nor. 3 Nor. 3 Nor. 2 Nor. 3 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	Stch
Necessary difference 2B	9 nce—2. 9 ain yiel	7 4 bushe 8 d differe	A A A A A A A A A A A A A A A A A A A	S-250 Rescue Chinook H. EDWARD I Thatcher Selkirk S-250 Lee Nugget ROBERT K. I Thatcher Selkirk S-250 Rescue Chinook tween varieties. THOMAS CO Thatcher Selkirk S-250 THOMAS CO	28.2 34.2 29.8 57.0 66.7 54.1 59.1 53.7 HAMII 20.4 23.0 25.7 26.0 19.6 OPER, 30.0 40.6 29.6	108 108 107 AN, RAY 115 117 116 116 116 	35 35 37 MORE 39 40 39 42 ROY ————————————————————————————————————	7.0 9.0 7.0 10.0 10.0 10.0 9.0	62 62 62 62 62 63 62 62 62 62 62 62 62 63 62	2 Nor. 2 Nor. 1 Nor. 2 Nor. 3 Nor. 3 Nor. 3 C.W. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor.	I. D., G. D., G. I.

Wheat Pool District 9-Continued

				week made	Yield	Days	Plant		Lbs. per		
Cereal		CL	Test		bus.	seed-	height	Camana	meas-	Com-	Candina
Variety Zone	Dist.	Sub- Dist.	desig- nation	Varieties	per	ing to ripening	inches	Straw	ured bushel		Grading remarks
				MERLE G.	BEVII	L, ELFR	os				
3C	9	10	A	Thatcher Selkirk S-250	41.8 53.5 42.8	119 119 119	47 42 46	8.8 9.3 8.3	62 62 62	3 Nor. 3 Nor. 3 Nor.	D., G D., G
				Lee	47.0	117	42	7.8	62	3 Nor.	D., G
Necessary differen	ice-2	9 bush	els.	Nugget	39.4	117	46	7.5	59	3 C.W.	mail has
			34/1	HEAT PO	OI D	ICTDI	T 10				
				TEAT PO	OL D	ISTAIC					
	40			TOSEPH A I	OFFIN	HOLDE	ACT	1	V 65 C		
2B	10	1		JOSEPH A. I		, HOLDE	AST	- Land	63	1 Nor	Townson
2B	10	1	A	Thatcher	42.0 42.8	, HOLDE	=	= =	63 63	1 Nor. 3 Nor.	
2B	10	1		Thatcher	42.0	HOLDE	'AST				D., G.
			A	Thatcher Selkirk S-250 Rescue Chinook	42.0 42.8 38.1	HOLDE	Ξ		63	3 Nor. 3 Nor.	
			A ence bet	Thatcher	42.0 42.8 38.1 38.8 39.5	= 1	E	-	63 61 64	3 Nor. 3 Nor. 2 Nor.	D., G.
No significant gra	in yiel	d differ	A ence bet	Thatcher	42.0 42.8 38.1 38.8 39.5	= 1		-	63 61 64 64	3 Nor. 3 Nor. 2 Nor. 2 Nor.	D., G. D., G. I. I.
			A ence bet	Thatcher	42.0 42.8 38.1 38.8 39.5	= 1		-	63 61 64 64	3 Nor. 3 Nor. 2 Nor. 2 Nor.	D., G. I. I.
No significant gra	in yiel	d differ	A ence bet	Thatcher Selkirk. S-250 Rescue Chinook ween varieties. FRANKLYN A Thatcher Selkirk S-250	42.0 42.8 38.1 38.8 39.5 STR. 30.6 28.8 27.7	= 1		-	63 61 64 64 64 62 63	3 Nor. 3 Nor. 2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor.	D., G.
No significant gra	in yiel	d differ	A ence bet	Thatcher	42.0 42.8 38.1 38.8 39.5 STR. 30.6 28.8 27.7 24.3	= 1	780N 28 25 29 26	-	63 61 64 64 64 62 63 64	3 Nor. 3 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor.	D., G. I. I.
No significant gra	in yiel	d differ	A ence bet	Thatcher Selkirk. S-250 Rescue Chinook ween varieties. FRANKLYN A Thatcher Selkirk S-250	42.0 42.8 38.1 38.8 39.5 STR. 30.6 28.8 27.7	AIN, LAW		=	63 61 64 64 64 62 63	3 Nor. 3 Nor. 2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor.	D., G. I. I.
No significant gra	in yiel	d differ	A ence bet	Thatcher	42.0 42.8 38.1 38.8 39.5 STR. 30.6 28.8 27.7 24.3 27.0	AIN, LAW	ZSON 28 25 29 26 28	=	63 61 64 64 64 62 63 64	3 Nor. 3 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 2 Nor. 2 Nor. 1 Nor.	D., G. I. I.
No significant gra	in yiel	d differ	A ence bet	Thatcher	42.0 42.8 38.1 38.8 39.5 STR. 30.6 28.8 27.7 24.3 27.0 BRAUI 35.4	AIN, LAW	ZSON 28 25 29 26 28	7.8	63 61 64 64 62 63 64 65	3 Nor. 3 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor. 1 Nor.	D., G. I. I. I. I. I.
No significant gra	10	d differ 2 2 bush	A els.	Thatcher	42.0 42.8 38.1 38.8 39.5 STR. 30.6 28.8 27.7 24.3 27.0 BRAUI	AIN, LAW	ZSON 28 25 29 26 28	7.8	63 61 64 64 64 62 63 64 65	3 Nor. 3 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 3 Nor.	D., G. I. I. I. G., I.
No significant gra	10	d differ 2 2 bush	A els.	Thatcher	42.0 42.8 38.1 38.8 39.5 STR. 30.6 28.8 27.7 24.3 27.0 BRAUI 35.4	AIN, LAW	ZSON 28 25 29 26 28	7.8	63 61 64 64 62 63 64 65	3 Nor. 3 Nor. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor. 1 Nor.	D., G. I. I. I. I.

3

5

В

B

Necessary difference-5.7 bushels.

1A..... 10

2B	10	5	A	Thatcher	23.4	_	212		61	2 Nor.	BI.
				Selkirk	26.1	_	-	_	58	2 Nor.	_
				S-250	24.3	-		_	59	2 Nor.	-
				Rescue	26.8		-	-	61	2 Nor.	Bl.
				Chinook	31.4	_	_	_	62	2 Nor.	Bl.
Necessary different	ce-3.	9 bushels	s.								
							-		-		

TERRY S. VEEMAN, TICHFIELD

32.3 19.8 25.2

25.3

Thatcher 17.7
Selkirk 18.3
S-250 13.9
Rescue 18.4
Chinook 18.6

Thatcher...... 31.0

Selkirk..... S-250..... Rescue.....

Chinook...

LLOYD SCHURY, BEECHY

2 Nor. 3 Nor. 3 Nor. 2 Nor. 1 Nor.

2 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor. Bl. Stch. Stch.

Necessary difference—2.3 bushels.

10

					R. BRUCE M	URRAY	, BRAT	TON				
2B	10	5		C	Thatcher	11.1	-		-	60	2 Nor.	BI.
					Selkirk	5.7		-	_	59	3 Nor.	Bl., I
					S-250	7.0	-	-		60	3 Nor.	Bl., I
					Rescue	11.1	-	-	-	62	2 Nor.	Bl.
					Chinook	10.5		-	-	63	2 Nor.	Bl.
Test damaged-Yi	ields no	t us	ed in	n zone	e summary.							

				REX H. FR	IEND,	HAWAR	DEN				
2B	10	6	A	Thatcher Selkirk	34.8	94 95	32 29	4.5	63 62	2 Nor. 3 Nor.	I. D., G.
				S-250	39.3	95	31	4.2	62	2 Nor.	I.
				Rescue		94	30	8.2	64	2 Nor.	I.
				Chinook	37.3	94	31	8.0	65	2 Nor.	I.
No significant grain	in viel	d differe	nce b	etween varieties.							

Wheat Pool District 10-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw strength	Lbs. per meas- ured bushel		Grading remarks
			1	RALPH E. JO	HNSON	N, DAVID	SON				
2B	10	7	A	Thatcher	29.2	101	40	-	63	1 Nor.	-
				Selkirk S-250	30.3 27.8	100 100	38 40	_	62 62	2 Nor. 2 Nor.	I. I.
				Rescue Chinook	27.6	99 99	40 40	_	62 64	1 Nor. 1 Nor.	_
No significant gra	in yiel	d diffe	rence be		29.1	99	40	199	04	1 1401.	
			D	ONALD R. AN	DERS	ON. STA	LWART				
2B	10	8	A	Thatcher	23.5	_	_	_	62	2 Nor.	Bl.
				Selkirk S-250	22.2				62 63	3 Nor.	D., C
				Rescue	27.4	_	-	-	63 64	2 Nor. 2 Nor.	D., G
Necessary differen	nce—2	.6 bus	hels.	CIIIIOOK	24.3	1 1 10	acm.	_	04	2 1401.	Stch
STATE OF THE				C. WAYNE	LOBER	RG. HAN	LEY	-			
2B	10	9	A	Thatcher	5.9	_		_	60	2 Nor.	I.
				Selkirk S-250	5.1	_		_	58 60	2 Nor. 2 Nor.	Ī.
				Rescue	9.1	-	-	-	62	2 Nor.	I.
Test damaged by	rain a	nd hai	l—Yields	Chinook s not used in zor	7.8 ne sumr	nary.	CERT S	_	62	2 Nor.	I.
Tosts die	obrao	d on o	occurret.	of damage hy	floodin	a mosts	hall du	owaht on	other or	*********	
1D		4	A	of damage by Robert W. Mo				ought of	Other Ca	auses	
2B	10	7	В	Raymond D. I							
19 -01	1		VV	HEAT PO	OL L)IS I KI	61 1	1			
	100			RICHARD F.	ROGI		RGAN	a State on			
1A	. 11	2	A	RICHARD F. Thatcher Selkirk	ROGH 31.5 32.9			-	65 63	1 Nor. 2 Nor.	
1A	. 11	2		RICHARD F. Thatcher Selkirk S-250	ROGH 31.5 32.9 28.2		29 27 31	Ē	63 64	2 Nor. 1 Nor.	<u>I.</u>
			A	RICHARD F. Thatcher	ROGE 31.5 32.9 28.2 29.9 30.6		29 27	Ē	63	2 Nor.	<u>ī.</u> <u>=</u>
1A			A	RICHARD F. Thatcher Selkirk S-250 Rescue Chinook	ROGI 31.5 32.9 28.2 29.9 30.6	ERS, FOI	29 27 31 30 29	=	63 64 65	2 Nor. 1 Nor. 1 Nor.	<u>ī.</u> =
	ain yie		A	RICHARD F. Thatcher Selkirk \$-250 Rescue Chinook etween varieties. JAMES S. ST Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6	ERS, FOI	29 27 31 30 29	=======================================	63 64 65 65	2 Nor. 1 Nor. 1 Nor. 1 Nor.	ī. =
No significant gr	ain yie	Id diffe	A erence be	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6	ERS, FOI	29 27 31 30 29	=	63 64 65 65	2 Nor. 1 Nor. 1 Nor. 1 Nor.	ī. =
No significant gr	ain yie	Id diffe	A erence be	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 TUKIN 38.0 36.3 33.1 34.3	ERS, FOI	29 27 31 30 29	· = =	63 64 65 65 65 63 63 64	2 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor.	ī.
No significant gr	ain yie	dd diffe	A errence be	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 TUKIN 38.0 36.3 33.1 34.3	ERS, FOI	29 27 31 30 29		63 64 65 65 65 65 63 63	2 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor.	<u>ī.</u>
No significant gr	ain yie	dd diffe	A errence be	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 TUKIN 38.0 36.3 33.1 34.3 30.2	GS, MAI	RGAN 29 27 31 30 29 DISON		63 64 65 65 65 63 63 64	2 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor.	<u>ī.</u>
No significant gr	ain yie	dd diffe	A errence be	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 FUKIN 38.0 36.3 33.1 34.3 30.2	GS, MAI	RGAN 29 27 31 30 29 DISON		63 64 65 65 65 63 63 64 65	2 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor.	I
No significant gr	ain yie	3	A A shels.	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 FUKIN 38.0 36.3 33.1 34.3 30.2	GS, MAI	RGAN 29 27 31 30 29 DISON		63 64 65 65 65 63 63 64 65	2 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor.	
No significant gr	ain yie	3	A A shels.	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 FUKIN 38.0 36.3 33.1 34.3 30.2 HAY, 47.0 44.6 41.7	GS, MAI	RGAN 29 27 31 30 29 DISON		63 65 65 65 63 63 64 65	2 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 3 Nor.	I
No significant gr	ain yie . 11 .nce—1	3 1.9 bus	A Shels.	RICHARD F. Thatcher	ROGI 31.5 32.9 28.2 29.9 30.6 TUKIN 38.0 36.3 33.1 34.3 30.2 HAY, 47.0 44.6 41.7 41.4 42.6	GS, MAI	RGAN 29 27 31 30 29 DISON		63 65 65 65 65 63 64 65 64 65	2 Nor. 1 Nor. 3 Nor.	
No significant gr	ain yie . 11 .nce—1	3 1.9 bus	A Shels. A	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 7UKIN 38.0 36.3 33.1 34.3 30.2 47.0 44.6 41.7 41.4 42.6	GS, MAI	29 27 31 30 29 DISON		63 65 65 65 63 63 64 65	2 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 3 Nor.	
No significant gr	ain yie . 11 . 11 . 11	3 1.9 bus	A Shels. A	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 7UKIN' 38.0 36.3 33.1 34.3 30.2 44.6 41.7 41.4 42.6	GS, MAI	29 27 31 30 29 DISON		65 65 65 65 65 65 65 64 62 63 65 65	2 Nor. 1	
No significant gr	ain yie . 11 . 11 . 11	. dld diffe	A Shels. A Gerence be	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 7UKIN 38.0 36.3 33.1 34.3 30.2 47.0 44.6 41.7 41.4 42.6	GS, MAI	29 27 31 30 29 DISON		65 65 65 65 65 63 64 65 65 65 65 65	2 Nor. 1 Nor.	
No significant gr	ain yie . 11 . 11 . 11	. dld diffe	A Shels. A Gerence be	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 36.3 33.1 34.3 30.2 HAY, 47.0 44.6 41.7 41.4 42.6	GS, MAI	29 27 31 30 29 DISON		63 65 65 65 65 63 63 64 65 65 65 65 65 65	2 Nor. 1 Nor. 2 Nor. 1	
No significant gr	. 11 . 11 . 11 . 11	3 1.9 bus 7	A shels. A shels. B	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 7UKIN 38.0 36.3 33.1 34.3 30.2 47.0 44.6 41.7 41.4 42.6	GS, MAI	RGAN 29 27 31 30 29 DISON		63 64 65 65 65 65 63 63 64 65 65 65	2 Nor. 1	
No significant gr	. 11 . 11 . 11 . 11	3 1.9 bus 7	A shels. A shels. B	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 7UKIN 38.0 36.3 33.1 34.3 30.2 44.6 41.4 42.6 CHRAN 18.9 21.7 15.4 21.2 21.5 c used in	GS, MAI	RGAN 29 27 31 30 29 DISON ————————————————————————————————————		63 65 65 65 65 63 63 64 65 65 65 65 65 65	2 Nor. 1 Nor. 2 Nor. 1	
No significant gr	. 11 . 11 . 11 . 11 . 11 . 11	3 1.9 bus 7	A shels. A shels. B	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 38.0 36.3 33.1 34.3 30.2 HAY, 47.0 41.7 41.4 42.6 CHRAN 18.9 21.7 15.4 21.5 5 t used ir	GS, MAI	RGAN 29 27 31 30 29 DISON ————————————————————————————————————		63 64 65 65 65 65 64 64 62 63 65 65 65 62 63 64 64	2 Nor. 1 Nor.	
No significant gr. Necessary differe 1D No significant gr. 1D Samples badly significant gr.	. 11 . 11 . 11 . 11 . 11 . 11	3 1.9 bus 7 7 d d durin	A shels. A shels. B mg shipm	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 36.3 33.1 34.3 30.2 HAY, 47.0 44.6 41.7 41.4 42.6 CHRAN 18.9 21.7 15.4 21.2 21.5 c used in	GS, MAI	RGAN 29 27 31 30 29 DISON ————————————————————————————————————		63 64 65 65 65 65 64 64 65 65 65 65 66 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	2 Nor. 1 Nor.	
No significant gr. Necessary differe 1D No significant gr. 1D Samples badly significant gr.	. 11 . 11 . 11 . 11 . 11 . 11	3 1.9 bus 7 7 d d durin	A shels. A shels. B mg shipm	RICHARD F. Thatcher	ROGH 31.5 32.9 28.2 29.9 30.6 7UKIN 38.0 36.3 33.1 34.3 30.2 44.6 41.7 41.4 42.6 CHRAN 18.9 21.7 15.4 21.2 21.5 1 used ir 4 EV TON 10 10 10 10 10 10 10 10 10 10 10 10 10	GS, MAI	RGAN 29 27 31 30 29 DISON ————————————————————————————————————		63 64 65 65 65 65 64 64 62 63 65 65 65 62 63 64 64	2 Nor. 1 Nor.	

Wheat Pool District 11-Continued

Cereal Variety	Dist	Sub-	Test desig-	Voninting	Yield bus. per	Days seed- ing to	Plant height in	Straw	Lbs. per meas- ured	Com- mercial	Grading
Zone	Dist.	Dist.	nation	Varieties	acre	ripening		strength	bushel	grades	remark
1D	11	9	A	Thatcher	38.8 35.3 32.8 30.5 32.1	E, COLE	VILLE	=	64 63 62 64 65	1 Nor. 2 Nor. 2 Nor. 1 Nor. 1 Nor.	I. I.
No significant gra	in yiel	ld differ	rence be					nio hel	1.6	-1317	
				t of damage by	flood	ing, pests	, hail, d	rought o	r other	causes	
ID	11	4	A	R. Donald Gill Marvin M. Nu	inweiler	, LaPorte.					
ID	11	5 8	AB	Jack B. Robert L. Robert Mut	tson, M	erid. cGee.					
iD	îî	10	Ã	Hughie M. Ha	wkins,	Hoosier.					
		in to li	w	HEAT PO	OL D	ISTRI	CT 1:	2	Indepen		
				ELEANORE H	. ITTE		OBAN	ATT			
2D	12	1	A	Thatcher	17.5	109 112	_	7.5 7.0	62 61	2 Nor. 2 Nor.	I.
				S-250	13.9	113	_	8.0	63	2 Nor.	I.
				Rescue	12.5	110 110	_	9.0 8.0	62	2 Nor. 2 Nor.	I.
Necessary differer	ice—2	.4 bush	iels.								
2D	12	2	A	NEIL O. FO Thatcher	9.3	r, TRAY	NOR 18	9.0	61	3 Nor.	G
<i>D</i>	12	~		Selkirk	8.5	-	15	10.0	59	3 Nor.	G.
				S-250 Rescue	7.8	_	18 19	10.0 9.8	60 60	3 Nor. 3 Nor.	G. G. G. G.
Necessary differen	nce—1	.2 bush	nels.	Chinook	9.6	- ((4)	18	10.0	63	3 Nor.	G.
				FRED L. BE	IRNES	. RUTHI	LDA				
2D	12	3	A	Thatcher	13.7		_	-	61	3 Nor.	G.,
				Selkirk S-250	13.9 12.4	=	MOE.	=	58 58 58	3 Nor. 3 Nor.	G.,
				Rescue	12.9	_	_	_	58 59	3 Nor. 3 Nor.	G., G.,
Test badly damag	ged by	hail—	Yields n	ot used in zone		ry.			-	3 11011	0.,
an 1	10	_		BILLY	H. SO	PYC, TA				2 27	2
2D	12	5	A	Thatcher Selkirk	20.8	110 108	26 24	8.3	63 62	3 Nor.	D., D., D.,
				S-250 Rescue	23.7 26.3	109 110	27 27	8.2	62 63	3 Nor. 3 Nor.	D.,
				Chinook	18.8	110	24	8.5	65	2 Nor.	I."
Test damaged—Y	fields 1	not used	d in zon	e summary.							
2D	12	6	A	ADAM R. I	21.4	MACK	LIN 16	4.8	61	2 Nor.	I.
				Selkirk	22.2	99	15	5.0	59	3 Nor.	I.
				S-250 Rescue	20.0	99 101	16 16	5.8 8.8	61 63	3 Nor. 1 Nor.	I.
rest damaged by	wind-	-Yields	s not us	Chinook	19.1 nary.	101	17	9.0	64	1 Nor.	-
				CYRIL SAW		FREEM	ONT				
3E	. 12	8	A	Thatcher	29.9	114	28	9.8	63	3 Nor. 3 Nor.	D.,
				Selkirk S-250	30.3	113 111	28 31	10.0 10.0	63 64	2 Nor.	D.,
				Lee Nugget	22.2 24.7	112 110	28 30	10.0 7.8	60 62	4 Nor. 4 C.W.	F. F.
Necessary differen	nce—1	.3 bush	nels.	14ugget	24.1	110	30	1.0	02	4 C.W.	1.
317	12	8	HOW	ARD M. BARN	ISLEY	, RIVERO		E, ALTA.	63	3 Nor.	C
3E	. 12	0	В	Thatcher Selkirk	67.2	104 107	37 34	9.0	63	4 Nor.	D.,
				S-250 Lee	64.4 55.6	106 110	38 38	9.0 8.5 7.3 6.5	63 59	4 Nor. 4 Nor.	G. D., D., D.,
Necessary differe	nce—6	. 4 bush	nels.	Nugget		105	39	6.5	59	4 C.W.	D.,
		, , , ,		GERALD M. I	ATLE	R. ROCK	HAVEN				
2D	. 12	9	A	Thatcher	13.3			_	61	3 Nor. 3 Nor.	D.,
				Selkirk S-250	17.7	=	I	=	61 61	3 Nor.	D.,
				Rescue Chinook	15.9	-		_	62 63	3 Nor. 3 Nor.	D., D., D., D.,
NI- stanificant an	oin wie	ld diffe	tence he	etween varieties.	14.9		17.77		03	J Hor.	D.,

Wheat Pool District 12—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com-	Grading remarks
			D.	KEITH BULL	LERWI	ELL. CUT	KNIFE				
3E	12	9	В	Thatcher Selkirk S-250 Lee Nugget	16.8 18.0 17.2 12.9 12.8	103 104 104 105 104	21 22 22 20 21	9.2 9.2 10.0 9.7 8.5	63 64 60 61	4 Nor. 4 Nor. 4 Nor. No. 6 5 C.W.	D.,G.,F. D.,G.,F. D.,G.,F. B.F. B.F.
Necessary differer	ice—2	. 1 bush	els.								
Necessary differer	ice—2	1 bush		UY R. LACOU	JRSIE	RE, HIGH	IGATE				
3G	12	10		UY R. LACOU Thatcher Selkirk S-250 Lee Nugget	30.7 29.7 27.2 26.9 22.2	RE, HIGH	34 35 34 34 34 34	E	63 62 62 61 61	3 Nor. 3 Nor. 3 Nor. 3 Nor. 3 C.W.	D., G. D., G. D., G. D., G. D., G.

WHEAT POOL DISTRICT 13

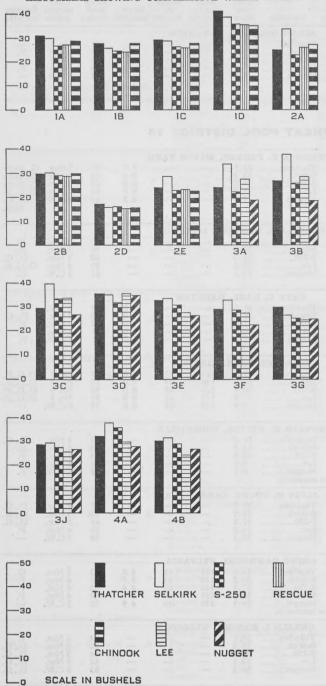
an											
an	,			WILBERT S.	ANDERSO	V, YO	UNG				
2B	13	2	A	Thatcher	23.3	-	-	_	61	2 Nor.	BI.
				Selkirk	22.4	_	-	-	57	3 Nor.	-
				S-250	23.4	_	-	-	60	2 Nor.	I.
				Rescue	19.7	-	-	-	61	2 Nor.	I.
				Chinook	20.9	-	-	_	63	2 Nor.	BI.
No significant gra	in yiel	d differ	ence b	etween varieties.							
			1	ARTHUR J. CA	LLAGHAN	, BLU	CHER				
2B	13	4	A	Thatcher	19.3	-	23	7.0	61	2 Nor.	I.
				Selkirk	18.2	-	24	8.3	58	3 Nor.	I.
				S-250	18.2	-	28	8.8	59	3 Nor.	I.
				Rescue		_	27	8.0	62	2 Nor.	I.
T 1	1.1.1.	37:-14-		Chinook	15.9	-	27	9.0	62	2 Nor.	I.
Test damaged by	Diras-	- Y leids	not u	sed in zone summ	ary.						
		_			NZEN, OS	LER	10	0.0			
2B	13	5	A	Thatcher	20.8	_	17	8.8	62	2 Nor.	BI.
				Selkirk	20.4		19	9.8	61	2 Nor.	Į.
				S-250		_	22	9.8	62	2 Nor.	I.
				Rescue	21.0		20 20	8.8	63	1 Nor.	_
No significant gra	in viel	differ	ence h	Chinook	19.5		20	9.5	64	1 Nor.	-
140 Significant gra	III yich	d diller									
				RNEST MISKO			OMME				
2B	13	8	A	Thatcher		6	-	8.8	64	3 Nor.	D., G.
				Selkirk		6	-	9.0	62	3 Nor.	D., G.
				S-250		6	-	9.0	63	3 Nor.	D., G.
				Rescue		6	-	8.5	64	3 Nor.	D., G.
Samples incomplet	vi	Ido not	boose	Chinook		96	-	8.8	65	3 Nor.	D., G.
		eius noi	usea				1,10,000				4
				J. LARRY NE	The second second						
2B	13	8	В	Thatcher	21.9 10		25	7.8	61	2 Nor.	Bl.
2D	13	0					26				
20	13	0	-11	Selkirk	21.6 10			9.4	59	2 Nor.	_
20	13	0		S-250	20.9 10	3	24	8.9	62	2 Nor.	I.
20	13	U		S-250 Rescue	20.9 10 16.7 10	3 2	24 24	8.9 9.0	62 62	2 Nor. 2 Nor.	I. I.
				S-250	20.9 10	3 2	24	8.9	62	2 Nor.	I.
Necessary differen			els.	S-250 Rescue	20.9 10 16.7 10	3 2	24 24	8.9 9.0	62 62	2 Nor. 2 Nor.	I. I.
Necessary differen	ce—1.	7 bushe	11 ,3	S-250	20.9 10 16.7 10 22.6 10	3 2 2 2 2	24 24 25	8.9 9.0	62 62 64	2 Nor. 2 Nor. 1 Nor.	I. I.
Necessary differen			els.	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 9	3 2 2 2 2 2 7 7	24 24 25	8.9 9.0	62 62 64 65	2 Nor. 2 Nor. 1 Nor.	I. I. D., G.
Necessary differen	ce—1.	7 bushe	11 ,3	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 9 27.0 9	3 2 2 2 2 2 3 1	24 24 25	8.9 9.0	62 62 64 65 64	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor.	I. I. D., G. D., G.
Necessary differen	ce—1.	7 bushe	11 ,3	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 9 27.0 9 27.7 9	3 2 2 2 2 70TZF	24 24 25	8.9 9.0 8.3	62 62 64 65 64 64	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor.	D., G. D., G. D., G.
Necessary differen	ce—1.	7 bushe	11 ,3	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 9 27.0 9 20.2 9	3 2 2 2 2 2 7 7 7 1 1 1 1 2	24 24 25	8.9 9.0	62 62 64 65 64 64 64	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 3 Nor.	I. I. D., G. D., G. D., G. D., G.
Necessary differen	ce—1.	7 bushe	A	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 9 27.0 9 20.2 9	3 2 2 2 2 70TZF	24 24 25	8.9 9.0 8.3	62 62 64 65 64 64	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor.	D., G. D., G. D., G.
Necessary differen	ce—1.	7 bushe	A els.	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 9 27.0 9 27.7 9 20.2 9 23.9 9	3 2 2 2 2 2 3 1 1 1 1 2 1	24 24 25 KE	8.9 9.0 8.3	62 62 64 65 64 64 64	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 3 Nor.	I. I. D., G. D., G. D., G. D., G.
Necessary differen	13 ce—2.	7 busho 9 1 busho	A els.	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 9 27.0 9 27.7 9 20.2 20.2 9 23.9 9	3 2 2 2 2 2 3 1 1 1 1 1 2 1	24 24 25 KE	8.9 9.0 8.3	62 62 64 65 64 64 64 66	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 2 Nor.	D., G. D., G. D., G. D., G. I.
Necessary differen	ce—1.	7 bushe	A els.	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 9 27.0 9 27.7 9 20.2 9 23.9 9	3 2 2 2 2 7 7 7 7 1 1 1 1 1 2 2 1	24 24 25 KE	8.9 9.0 8.3	62 62 64 65 64 64 64 66	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 2 Nor.	D., G. D., G. D., G. D., G. I.
Necessary differen	13 ce—2.	7 busho 9 1 busho	A els.	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 5 27.0 9 27.7 20.2 9 23.9 9	3 2 2 2 2 2 3 1 1 1 1 2 1 1 1 1 1 1 1 1	24 24 25 KE	9.0 8.3	62 62 64 65 64 64 64 66 63 62	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 2 Nor. 3 Nor. 2 Nor.	D., G. D., G. D., G. D., G. I.
Necessary differen	13 ce—2.	7 busho 9 1 busho	A els.	S-250	20.9 10 16.7 10 22.6 10 ERASH, 7 24.3 9 27.0 9 27.7 9 20.2 9 23.9 0 UTZ, MIDI 58.0 10 62.8 9 61.4 9	3 2 2 2 2 2 1 1 1 1 2 1 1 2 1 1 1 6 6	24 24 25 KE	9.0 8.3 9.0 8.8 8.8	62 62 64 65 64 64 64 66 63 62 63	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 2 Nor. 3 Nor. 4 Nor.	D., G. D., G. D., G. D., G. F.
Necessary differen	13 ce—2.	7 busho 9 1 busho	A els.	S-250	20.9 10 16.7 10 22.6 10 BRASH, 7 24.3 5 27.0 9 27.7 9 20.2 20.2 23.9 9 0 TTZ, MIDD 58.0 10 62.8 9 61.4 9 61.4 9	3 2 2 2 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1	24 24 25 KE	9.0 8.8 9.0 8.8 8.8 8.8	62 62 64 65 64 64 64 66 63 62 63 61	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 2 Nor. 2 Nor. 4 Nor. 4 Nor. 4 Nor.	D., G. D., G. D., G. D., G. D., G. F.
Necessary differen	13 cce—2.	9 1 bushe	A els.	S-250	20.9 10 16.7 10 22.6 10 ERASH, 7 24.3 9 27.0 9 27.7 9 20.2 9 23.9 0 UTZ, MIDI 58.0 10 62.8 9 61.4 9	3 2 2 2 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1	24 24 25 KE	9.0 8.3 9.0 8.8 8.8	62 62 64 65 64 64 64 66 63 62 63	2 Nor. 2 Nor. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 2 Nor. 3 Nor. 4 Nor.	D., G. D., G. D., G. D., G. F.

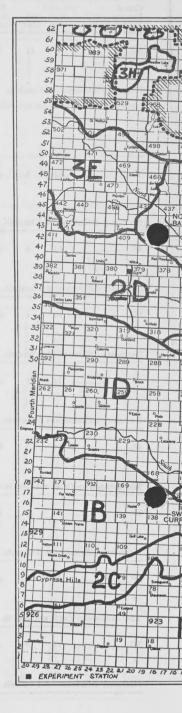
Wheat Pool District 13-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com- mercial	Grading
3C	13	11	A	ALLAN DOE Thatcher Selkirk S-250	9.1 15.6 9.0	ANNAH	EIM	Ξ	55 59 53 56 54	No. 5 No. 5 No. 5 No. 5 S C.W.	<u>F.</u> F.
Necessary differen	nce—2.	.2 bush	els.	Lee Nugget	17.7	=	=	=	54	5 C.W.	<u>F.</u>
			W	HEAT PO	OL D	ISTRI	CT 14	4			
			LAV	VRENCE R. P	ARKE	R, SILVE	R PAR	K			
3F	14	3	A	Thatcher Selkirk S-250 Lee Nugget	23.1 23.4 19.6 18.7 9.5	=	=======================================	8.0 8.0 8.0 8.0 6.5	63 62 63 63 64	3 Nor. 3 Nor. 3 Nor. 4 Nor. 4 C.W.	G., Stch G., Stch G., Stch D.,G.,F D., G
Necessary differen	nce-4	.5 bush	els.								btt
		4	F	ROSELLA E. I		ER, McB	AGUE				
4A	. 14	4	A	Thatcher Selkirk S-250 Lee Nugget	25.7 29.9 25.3 25.3 19.5	=		Ξ	60 59 60 59 61	2 Nor. 3 Nor. 3 Nor. 4 Nor. 3 C.W.	Bl. F. D., G D.,G.,F G.
Necessary differen	nce-4	.7 bush	els.								176-
				FAYE C. I	DAHL,	DAHLT	ON				
3C	14	4	С	Thatcher Selkirk S-250 Lee	41.1 48.9 42.9 44.3	Ξ	=	9.0 9.0 9.0 2.0	63 62 62 61	2 Nor. 3 Nor. 4 Nor. 4 Nor. 4 C.W.	I. D., C F. F. F.
Necessary differen	nce—5	.3 bush	els.	Nugget	35.3	_	-	2.0	61	4 C.W.	F.
			-	FRANK GL	EESON	. KINLO	CH		-		
4A	14	5	A	Thatcher	12.3 20.5	121	43	8.0	57	No. 5	D.,G.,F
				Selkirk S-250	20.5	120 120	43 43	9.0 8.0	57 57 56	No. 5 No. 5	D.,G.,F D.,G.,F D.,G.,F
				Lee Nugget	12.2	119 119	43	8.0 6.8	57 53	No. 5 No. 5 No. 5 No. 5 6 C.W.	D.,G.,I
Necessary differen	nce-4	.5 bush	iels.	1146600	7.0	***	43	0.0	33	0 C.W.	
			F	ONALD H. H	IRTLE	, NOBLE	VILLE				
4A	14	5	В	Thatcher Selkirk	11.9	_	_	_	60 60	3 Nor.	D., C
				S-250	12.8	_	_	_	60	4 Nor. 4 Nor. 4 Nor. 3 C.W.	F. F. F.
				Lee Nugget	9.9	=	=	_	59 59	4 Nor. 3 C.W.	F.
Test damaged—Y	ields r	not used	in zone	summary.							
V-1 1 1 1 1 1 1 1 1 1				ALVIN R. TO		CARRAG	ANA		-		
3F	14	6	A	Thatcher	28.7 35.9	=	_	_	61	3 Nor.	D., C
				S-250	32.2	=	_	=	61 59	3 Nor. 3 Nor.	D., C D., C F.
NT			.1.	Lee Nugget	24.8 25.8	_	-	-	58	4 Nor. 3 C.W.	
Necessary differe	nce—3	.5 bust	ieis.								-
217	1.1	7	A	OREST NAW		121	ANIA 48	16	62	2 Nor.	0
3F	. 14	,	A	Thatcher	35.6 36.2	120	49	4.6 5.1	63 61	4 Nor.	F.
				S-250 Lee	37.2	120 121	49 49	4.4	62 59	4 Nor. 4 Nor.	G. F. F.
Test damaged—	lields :	not use	d in zone	Nugget	38.3	120	48	4.9	58	3 C.W.	-
- Cot Guillageu -	icido I	user	111 2011		ET A BYC'S	DAL MARK	DOM		100		
3D	. 14	. 9	A	GERALD I. Thatcher	35.1	well	DOM -	_	64	2 Nor.	I.
		Walt l		Selkirk	35.8 32.4	_		-	62 64 62	3 Nor	D., 0
				S-250 Lee Nugget	33.1	=	=	_	62	3 Nor. 3 Nor. 3 C.W.	D., 0 D., 0 D., 0

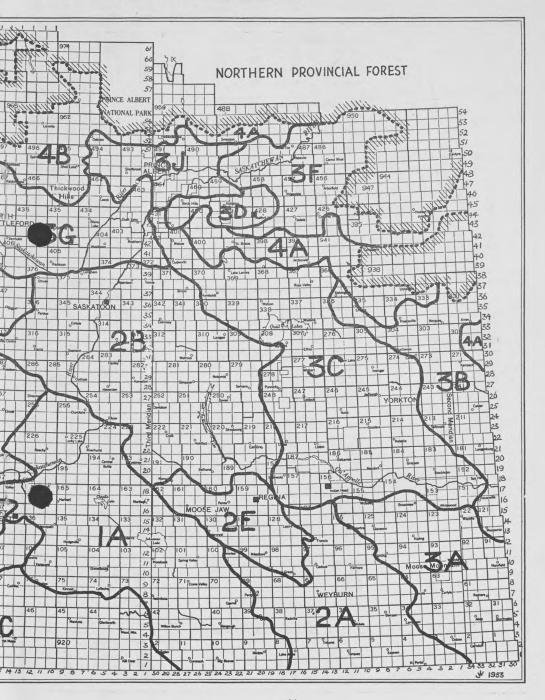
Necessary difference-3.2 bushels.

HISTOGRAMS SHOWING COMPARATIVE WHEAT YIELDS





Cereal Variety Zones of Saskatchewan



Wheat Pool District 14-Continued

			W	heat Pool Di	stric	t 14—Con	ntinued	l			
Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw strength	Lbs. per meas- ured bushel	Com- mercial	Grading remarks
				MILES PRITO	HARI	, RUNCI	MAN				
3F	14	10	A	Thatcher Selkirk S-250 Lee	54.5 56.5 48.7 53.2	95 96 102 98	35 34 37 33	6.8 8.3 6.5 5.8	63 62 62 61	2 Nor. 3 Nor. 2 Nor. 3 Nor.	I. D., G. I. D., G.
Necessary differer	nce—4	.2 bush	nels.	Nugget	42.2	100	37	1.5	58	4 C.W.	D., G.
				GEORGE W	. IHL	E, NIPAW	/IN				
3F	14	11	A	Thatcher Selkirk S-250 Lee	13.0	107 109 109 109	=	7.5 8.8 8.5 8.4	59 56 58 60	3 Nor. 4 Nor. 3 Nor. 3 Nor.	I. I. I.
Necessary differen	nce—1	.5 bush	nels.	Nugget	10.9	106	-	5.4	59	3 C.W.	1.
	*										
			W	HEAT POO	DL E	ISTRI	CT 1	5			
				HARRY R. I	BASTN	ESS, HA	GEN	-			
3D	15	2	A	Thatcher	27.2	_	32	10.0	63	2 Nor.	Į.
				Selkirk S-250	27.6 23.7	=	32 35	9.0 9.0	62 63	2 Nor. 2 Nor.	I.
				Lee Nugget	30.7 32.3	_	32 30	8.0	63 63	3 Nor. 3 C.W.	D., G. D., G.
Necessary differen	ice—4	.6 bush	els.								
				HARVEY N. S		VICK, DO	MREM		1162		
3D	15	2	В	Thatcher	43.1	114 115	33 31	9.3 9.8	63 63	2 Nor. 3 Nor.	I. D., G.
				S-250 Lee	38.1 42.4	117 117	36 33	9.5 9.5	63 62	3 Nor. 3 Nor.	D., G.
NY1 161	ii1	1 1:66	amaa bat	Nugget	46.3	116	35	7.3	64	2 C.W.	D., G. I.
No significant gra	in yiei	a differ	ence bet	ween varieties.							
20	15			OHN A. ZACI		s, Rost			62	2 NI	D 6
3G	15	4	A	Thatcher	15.4	=	18 15	_	62 62	3 Nor. 3 Nor.	D., G. D., G.
				S-250 Lee	14.1	_	16 14	_	63 62	3 Nor. 4 Nor.	D., G. F. F.
Necessary differen	ice—2	.2 bush	els.	Nugget	10.3	-	17	-	63	4 C.W.	F.
зј	15	6	A	KEN A. WILI Thatcher	33.5	HBY, CA	MEO 27	8.3	63	3 Nor.	D., G.
J				Selkirk	31.1	_	27 27	8.3 8.5	63	3 Nor. 3 Nor.	D., G.
				S-250 Lee	29.2	_	28	8.8	64	3 Nor.	D., G.
Necessary differer	nce—2	.3 bush	nels.	Nugget	28.9	-	26	7.3	64	2 C.W.	I.
	-	-	,	LAWRENCE C	OLLU	VE OPM	PATIT				
4B	15	7	A	Thatcher	56.8	97	36	10.0	64	2 Nor.	I.
				Selkirk S-250	62.0 56.7	100 100	36 40	10.0	63	3 Nor.	D. G
				Lee	49.5	102	36	10.0	63	4 Nor.	D., G., F. D., G.
Necessary differen	nce-4	.3 bush	iels.	Nugget	30.1	100	36	5.0	63	3 C.W.	D., G.
	1		RIC	CHARD S. SCI	HMAL	Z. SHELI	BROOT	K			
3Ј	15	8	A	Thatcher	23.5			-	64	3 Nor. 3 Nor.	D., G
				Selkirk S-250	23.6 24.1	=	24	=	64 65	3 Nor.	D., G. D., G. D., G.
				Lee Nugget	17.3 21.3		25 24 28 25 27	_	63	4 Nor. 3 C.W.	F. B.P.
Necessary differen	nce-2	.3 bush	iels.						0,	3 0.77	2
			F	LOYD A. CRO	OWLE	Y, NORT	HSIDE				
4B	15	9	A	Thatcher Selkirk	16.3 16.0	_	_	_	63 63	3 Nor. 4 Nor.	F.
				S-250	17.2	-	-	-	64	4 Nor.	F. F. F. F.
				Lee Nugget	13.2 15.3	=	_	=	62 63	4 Nor. 4 C.W.	F.
No significant gra	in yiel	d differ	rence be	tween varieties.							

Wheat Pool District 15-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw strength	Lbs. per meas- ured bushel	Com- mercial	Grading remarks
	11-11			JACK G.	HAY,	SHIPMA	N	11111			
31	15	11	A	Thatcher	28.5	_	_	_	60	3 Nor.	D., G.
-5				Selkirk	32.7	_	_	-	60	3 Nor.	D., G.
				S-250	27.3	_	-	-	60	3 Nor.	D., G.
				Lee		-	-		59	4 Nor.	D., G. F.
				Nugget	28.4	-	_	-	60	3 C.W.	Ď., G.
Necessary differen	nce-2	.3 bush	iels.								.,

WHEAT POOL DISTRICT 16

				RONALD O.	TKATC	H, HAF	FORD	100	100		
3G	16	2	A	Thatcher		120	33	7.3	63	3 Nor.	F.
				Selkirk		120	31	9.3	63	3 Nor.	F.
				S-250	44.8	120	33	9.8	63	3 Nor.	F.
				Lee	45.8	119	37	9.8	62	4 Nor.	. F.
				Nugget		119	31	8.5	63	4 C.W.	F.
Necessary differen	ce-3	6 bush	els.								
	1	W	ILLIA	M R. WOODW	ARD, I	NORTH	BATTL	EFORD			
3G	16	3	A	Thatcher	18.6	-		-	62	3 Nor.	D., 0
				Selkirk	14.6	-	_	_	59	4 Nor.	D., (
				S-250	13.4	-	100	_	62	4 Nor.	D., (
				Lee	14.8		_	_	61	4 Nor.	D., (
Necessary differen	ce_2	3 hush	ele	Nugget	14.3				64	2 C.W.	1.1
- Trecessary unicient		J Dusii	C15.		DY 4 37 CT	*********	*******		-		
217	16		A	WILFRED L.	29.1	HETTE,	VAWN 33	7.0	63	3 Nor.	D (
3E	10	4	A	Thatcher	29.1		32	6.5	62	3 Nor.	D., C
				S-250		_	34	8.5	63	3 Nor.	D., C
				Lee			33	8.3	62	4 Nor.	F.
				Nugget		-	32	7.0	62	4 C.W.	F.
Necessary differen	ce—3.	8 bush	els.								
				KENNY A. G	ARRET	T, PAY	NTON				
3E	16	5	A	Thatcher	40.4	-	-	_	62	3 Nor.	D., C
				Selkirk	45.6	-	-	_	61	3 Nor.	D., C
				S-250	29.2 39.9	_	_	_	62	3 Nor.	D., C
				Lee Nugget	39.9				62	3 Nor. 2 C.W.	D., C
Necessary difference	ce-6.	0 bushe	els.	Taugget	39.0				03	2 C. W.	1.
			JI	M W. TOWNLI	EY-SMI	TH. LA	SHBUR	N			
3E	16	6	A	Thatcher	29.7		_	_	63	2 Nor.	I.
				Selkirk	30.5	-	_	-	62	3 Nor.	D., C
				S-250	32.5	-	-	_	63	3 Nor.	D., G
				Lee	23.4	-	_	_	61	4 Nor.	F.
Necessary difference	-0_4	3 hushe	ele	Nugget	23.3		_	-	61	3 C.W.	D., G
- Trecessary different	4.	J Dusile						_			
25	10	-		HNNY R. LEE	23.9	TE ST.	31		(2	2 37	0
3E	16	7	A	Thatcher	23.9		31	10.0 10.0	63 62	3 Nor.	G.
				S-250	21.2	_	31	10.0	62	3 Nor.	G.
				Lee	17.2	_	32	10.0	62	3 Nor.	G. G. G.
				Nugget	13.6	-	32	10.0	64	3 C.W.	Ğ.
Test damaged—Yi	elds n	ot used	in zon								
				SHIRLEY A.	GEORG	E, ME	RVIN				
3E	16	8	A	Thatcher	21.5	90	27	10.0	61	4 Nor.	F.
				Selkirk	25.4	88	27	10.0	62	4 Nor.	F.
				S-250	21.6	90	29	10.0	62	4 Nor.	F.
				Lee	17.3	93 90	25 30	10.0	58	No. 5	D.,G.,F
Necessary difference	e-2.	8 bushe	els.	Nugget	20.5	90	30	9.0	61	4 C.W.	F.
				DALE R. HUN	TED C	PRIICE	LAKE	-			
3E	16	8	В	Thatcher	25.4	RUCE	LAKE		62	4 Nor.	D., G
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10	0	D	Selkirk	21.4			_	59	4 Nor.	D., G
				S-250	20.9	_	_	_	58	No. 6	F.
				Lee	22.5	_	_		53	Feed	F.
				Nugget	21.2	_		-	56	4 C.W.	F.

Wheat Pool District 16—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bus. per acre	Days seed- ing to ripening	Plant height in inches	Straw	Lbs. per meas- ured bushel	Com- mercial	Grading remarks
		Town I		GEORGE W.	ABBO	TT, GLAS	SLYN				
4B Necessary differer	16 nce—2	9 .1 bush	A	Thatcher Selkirk S-250 Lee Nugget	29.4 28.0 27.5 22.3 20.5	106 106 107 104 105	20 20 21 23 22	10.0 10.0 10.0 8.0 10.0	64 62 62 60 61	4 Nor. 4 Nor. 4 Nor. No. 5 3 C.W.	F. F. F. D.,G.,F.
		G	LEN J.	AND BUD B	BACI	HELDER.	MULL	INGAR			
4B Necessary differer	16 nce—3	10	A	Thatcher	27.2 30.1 25.4 18.6 21.4	91 91 93 94 97	28 32 36 28 29	10.0 9.0 9.0 9.0 8.0 4.0	63 62 62 61 61	4 Nor. 4 Nor. No. 5 No. 5 4 C.W.	F. F. D.,G.,F. D.,G.,F.
				CRESTON J	STO	RY. RAN	GER				
4B		10	В	Thatcher Selkirk S-250 Lee Nugget	8.6 9.3 8.1 7.9 5.1	103 103 105 107 111	21 20 21 22 17	10.0 10.0 10.0 10.0 9.8	63 60 62 62 59	3 Nor. 3 Nor. 2 Nor. 4 Nor. 4 C.W.	F. F. D., G. F. F.
Test damaged by	hail—	Yields	not used	in zone summa	iry.						
			LAV	VRENCE A. B		, SOUTH					
4B	16	11	A	Thatcher Selkirk S-250 Lee	20.2 20.4 17.6 16.9	Ξ	39 37 39 38	6.5 7.0 6.5 6.5 6.5	63 62 63 64	4 Nor. 4 Nor. 4 Nor. 4 Nor.	F. F. F.

BARLEY TESTS

A total of 101 barley tests were conducted during 1953. The varieties tested were Vantage, Husky, Harlan, Titan, Balder and Hannchen. Only four of these were included in each test. Vantage and Husky were used in all tests throughout the province. Harlan and Titan are most suited to the open prairie region (Zones 1A to 2E)* and were used in the tests in that area. Balder and Hannchen were used in the parkland and wood area (Zones 3A to 4B).*

Description of Varieties

Vantage is a six-rowed, smooth awned variety which is medium-late and has medium strong straw. It is resistant to stem rust but is susceptible to leaf rust, loose smut and covered smut. It is eligible for the feed grades only. Vantage was developed at the Brandon Experimental Farm from the cross (Newal X Peatland) X Plush.

Husky is a new six-rowed, smooth awned, yellow aleurone barley. It is medium late maturing and has straw of medium strength. It is resistant to stem rust, moderately susceptible to leaf rust, moderately resistant to covered smut but susceptible to loose smut. It is eligible for feed grades only. Husky was developed at the University of Saskatchewan from the cross ((Peatland x Regal) x O.A.C. 21) x Newall. It was licensed in 1952.

Harlan is a six-rowed, rough awned variety which is resistant to shattering and lodging. It has produced good yields under irrigation conditions in Alberta. Harlan is resistant to covered and false loose smuts, stripe and bacterial blight, but is susceptible to rusts and true loose smut. Harlan is eligible for feed grades only. It was originated by the U.S. Department of Agriculture.

Titan is a six-rowed, smooth awned variety which is early maturing and has strong straw. It is susceptible to stem and leaf rust, moderately resistant to covered smut and susceptible to loose smut. It is eligible for feed grades only. Titan was originated at the University of Alberta from the cross Trebi X Glabron.

Balder is a two-rowed Swedish variety which is not yet licensed in Canada. It is late maturing, has mid-short, mid-strong straw, and mid-strong neck strength. Because it is not yet licensed, no grading standards have been set for this variety. However, for testing purposes it is considered to be comparable to Hannchen in quality.

Hannchen is a two-rowed, rough awned, late maturing variety, which has short, weak straw but it is reasonably satisfactory for straight combining. It is susceptible to stem and leaf rust and loose and covered smut. It is eligible for the top two-row grades. Hannchen originated in Sweden by selection from the variety Hanna.

GRAIN YIELD

Zones 1A to 2E. An average of all tests in these zones indicates that Vantage was high in yield, although the differences between this variety and Harlan and Husky were of a minor nature. Vantage and Harlan each placed first in yield in two zones, second in three, and third in one. Husky was top yielder in two zones, placed third in three zones, and fourth in one area. With the one exception of Zone Group 2A and 2E, the yield differences between these three varieties were not significant. In Zone Group 2A and 2E both Harlan and Vantage significantly outyielded Husky. Titan was outyielded by all other varieties in every zone except the 2A and 2E group.

Zones A to 4B. On an average basis, Husky outyielded the other varieties in this group of zones. It placed first in five zones, second in two and third in one. Its best comparative performance came in Zone 3C where Husky outyielded all other varieties by significant differences. A comparison between the two six-rowed varieties in the test shows that Husky outyielded Vantage in six of the eight zone groups of this area. Vantage placed second in yield on an average basis. Its best performance came in Zone 3G where it outyielded all other varieties. Balder placed third

^{*}See Cereal Variety Zone Map, page 41.

on an average basis but the yield differences between this variety and Vantage were significant in only one zone. Hannchen was outyielded by all other varieties in six of the eight zones. A comparison between the two-rowed varieties in the test shows that Balder outyielded Hannchen in all but one zone.

TABLE No. 27-AVERAGE YIELDS IN BUSHELS PER ACRE SUMMARIZED BY CEREAL VARIETY ZONES

Cereal** Variety Zone	No. of Satisfactory Tests	Vantage	Husky	Harlan	Titan	Balder	Hannchen	Necessary Difference* in bushels
1A	. 6	53.3	49.5	52.1	47.4	-		5.39
1B and 1C	. 4	55.7	53.6	56.0	53.2		_	8.14
1D		61.0	67.1	61.7	58.9		_	N.S.
2A and 2E	4	57.2	50.1	58.8	54.0		-	6.33
2B	8	56.4	51.9	52.6	44.7	-	-	5.52
2D	3	36.0	36.5	34.2	32.6	_	_	11.66
3A	6	54.5	64.6	_		46.4	40.5	11.43
3B	4	51.8	56.9	-		52.4	43.7	N.S.
3C	6	54.9	63.4	_		54.2	44.2	6.32
3D and 3F	2	47.3	46.2	_		48.7	40.2	8.63
3E	5	67.9	71.8	-	_	62.9	55.4	5.83
3G	3	59.6	56.2	_	_	39.9	46.3	12.65
3J	4	48.4	53.5	_		53.9	49.5	N.S.
4A and 4B	. 3	49.8	61.9	-	-	55.2	47.6	7.17

^{*} Necessary Difference.—Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of these differences. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over another in that particular zone group.

N.S.—No significant grain yield difference between varieties.

N.S.—There were no satisfactory tests in zone 2C.

**See zone map, page. 41.

Past Performance and Official Recommendations

Vantage has gained considerable popularity since it was introduced for commercial production in 1948. It was top yielder in the open prairie region in both 1952 and 1953 but was outyielded by Husky in the parkland and wooded region in the three years 1951 to 1953. Because of its record over the past number of years, Vantage is officially recommended in every zone in the province, with the exception of 1B, 1C and 2C.

Husky has been included in Wheat Pool tests for three years and has produced outstanding yields, particularly in the parkland and wooded region. During 1953 it was top yielder in five, and second in two, of the eight zone groups in this region. This record is supported by its performance in 1951 and 1952. In addition to its yielding ability in this area, Husky has performed well in Wheat Pool tests in the open prairie region, although it averaged slightly lower than Vantage in yield during 1952 and 1953. Husky is now officially recommended in Zones 2A, 2B, 2D, 3A, 3B, 3C and 3F. Tests are still being carried on to determine its adaptability in other zones.

Harlan was included in Wheat Pool tests for the second year in 1953. It is recommended for irrigated areas in Alberta and has shown good results during the past two years in the open prairie region of Saskatchewan. This variety is still being tested prior to any official recommendations being made.

Titan was outyielded by the other varieties in all but one zone in the prairie region of Saskatchewan in 1953. It was outyielded by the other varieties in 1952. Titan has been removed from the official recommendations for a number of zones in recent years but is still recommended in Zones 1A, 1B, 1C, 2A, 2C and 2E because of its past performance under dry conditions.

Balder was tested by the Wheat Pool for the first time in 1953. It was outyielded on an average basis by Husky and Vantage but in Zones 3D, 3F and 3J it placed first in yield. Balder is a two-rowed variety and a direct comparison between this variety and Hannchen is therefore of particular interest. During the past season Balder outyielded Hannchen in seven of the eight zone groups in which these two varieties were tested.

Hannchen was outyielded by all other varieties in six zones, and placed third in the two remaining zones during 1953. Hannchen was tested previously by the Wheat Pool in 1950, and it averaged lower in yield than Vantage at that time. Hannchen is officially recommended as the best high quality two-rowed variety for use in Zones 3D and 3F.

HISTOGRAMS SHOWING BARLEY YIELDS BY CEREAL VARIETY ZONES

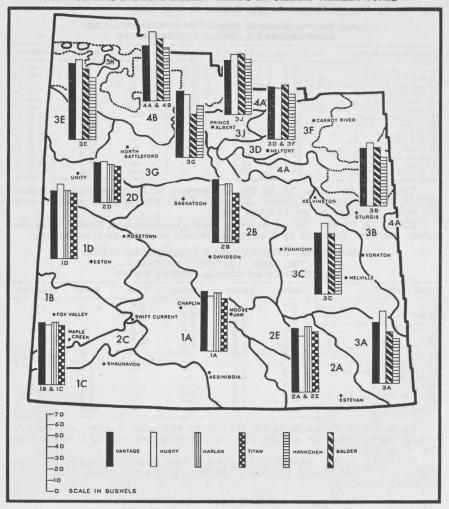


TABLE No. 28.—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Vantage	Husky	Harlan	Titan	Balder	Hannchen
1A	94.6	95.3	94.6	91.6	_	
1B and 1C	102.0	100.0	96.5	96.0	-	
1D	96.8	98.0	94.3	94.0	_	
2A and 2E	93.7	96.0	91.3	89.0	-	
2B	93.3	93.5	90.8	92.3	_	_
2D					-	
3A	89.3	90.5		-	90.3	91.3
3B	80.5	82.5		_	83.5	83.0
3C	95.5	99.5		-	101.0	99.0
3D and 3F	94.7	97.3	_		99.3	99.0
3E	98.0	98.5		-	99.5	99.0
3G	98.7	99.3		_	101.0	99.0
3J	97.0	98.0			99.0	98.0
4A and 4B	97.5	98.5		_	98.5	98.5

Table No. 28. Zones 1A to 2E. On an average basis Titan was the earliest ripening variety, followed by Harlan, Vantage and Husky in that order.

Zones 3A to 4B. Vantage ripened earlier than the other varieties, followed by Husky, Hannchen and Balder in that order.

TABLE No. 29.—AVERAGE HEIGHT OF PLANTS IN INCHES SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Vantage	Husky	Harlan	Titan	Balder	Hannchen
1A	26.0	25.8	25.4	25.2	_	_
1B and 1C	29.5	31.5	31.5	31.0	-	-
1D	30.3	26.0	28.8	28.8		_
2A and 2E	26.3	28.2	26.2	24.0	_	-
2B	27.8	28.3	27.8	27.0	-	
2D					_	_
3A	31.6	32.4	_	_	28.6	32.2
3B	40.5	39.0	_		35.5	38.0
3C	27.5	29.5	_	_	25.0	29.8
3D and 3F	26.3	29.0	_		23.3	26.0
3E	31.0	29.5	_	_	25.5	27.8
3G	22.3	19.5	_	_	19.8	19.5
3.J	34.7	33.3		_	29.7	30.0
4A and 4B	31.7	32.0	_	_	27.7	29.3

Table No. 29. Zones 1A to 2E. Differences in height were of a minor nature in this group of zones, although Titan was slightly shorter than the other varieties on an average basis.

Zones 3A to 4B. On an average basis, Vantage and Husky were the tallest varieties, followed by Hannchen. Balder was the shortest variety.

TABLE NO. 30.—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS 10(STRONG) — 0(WEAK) SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Vantage	Husky	Harlan	Titan	Balder	Hannchen
1A	8.4	8.1	8.2	7.6	_	_
1B and 1C	8.7	9.3	9.7	9.4	_	-
1D	9.1	8.8	8.8	9.3	_	-
2A and 2E	8.4	9.3	8.9	7.2	_	
2B	8.2	8.3	8.0	7.8		_
2D.	9.3	8.9	9.2	9.3	_	_
3A	8.3	8.8		_	8.6	7.9
3B	_	_		-	_	
3C	8.3	8.6	_	_	8.9	7.7
3D and 3F	9.2	8.5	_	_	8.7	7.3
3E	8.6	7.2	_		6.6	7.9
3G	9.3	8.9	_	_	9.1	9.3
31	9.5	9.5	_	_	9.3	9.4
4A and 4B	8.5	9.0	_	_	10.0	6.6

Table No. 30. Zones 1A to 2E. No serious weakness of straw was evident among the varieties. On an average basis Husky was slightly stronger than the other varieties.

Zones 3A to 4B. Balder and Vantage were practically equal in straw strength, followed closely by Husky. Hannchen was somewhat weaker than the other varieties.

TABLE No. 31.—AVERAGE NECK STRENGTH OF PLANTS BASIS 1(STRONG), 2(MEDIUM), 3(WEAK) SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Vantage	Husky	Harlan	Titan	Balder	Hannchen
1A	1.7	2.0	1.8	1.8	_	_
1B and 1C	1.7	1.6	1.9	1.1		_
1D	1.3	2.3	1.7	1.3		_
2A and 2E	1.6	1.6	1.6	1.6	_	_
2B	2.2	2.6	2.0	2.2	_	_
2D	1.6	2.5	1.6	1.5		_
3A	1.6	1.9			2.3	2.1
3B	1.0	1.0	_	_	2.0	1 9
3C	1.5	1.5	_	_	1.8	1.8
3D and 3F	1 4	1.7	_	_	2.7	2.8
3E	1.6	2.1	_		2.0	2.2
3C	1.8	2.3	_	_	1.9	2.0
31	1 3	1.6	_	_	2.3	1 9
4A and 4B	1.5	1.5	-	_	1.0	1.0

Table No. 31. Zones 1A to 2E. An average of all tests indicated that Titan was slightly superior in neck strength. Harlan and Vantage were practically equal, followed by Husky.

Zones 3A to 4B. Vantage was superior in neck strength in most zones. Husky placed second. Balder and Hannchen were practically equal.

TABLE No. 32.—AVERAGE WEIGHT PER MEASURED BUSHEL SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Vantage	Husky	Harlan	Titan	Balder	Hannchen
1A	49.3	49.0	44.0	49.4	_	_
1B and 1C	50.3	50.8	45.5	50.3	-	_
1D	48.5	49.8	46.0	46.5	_	_
2A and 2E	48.3	48.6	42.1	45.6	_	-
2B	48.7	50.4	44.0	47.3	_	_
2D	49.7	50.3	43.0	48.0		_
3A	49.2	50.5		_	50.3	50.2
3B	47.6	50.4	_	_	51.0	50.6
3C	47.7	49.1	_	_	51.4	51.8
3D and 3F	47.3	46.7		_	52.7	53.3
3E	49.4	50.8	_		52.4	52.4
3G	50.0	52.5	_	24.0	53.5	53.8
3J	47.3	48.3	_		53.3	53.0
4A and 4B	45.0	48.0	_	-	51.3	51.0

Table No. 32. Zones 1A and 2E. Husky was highest in bushel weight on an average basis. It was followed by Vantage, Titan and Harlan in that order.

Zones 3A to 4B. Balder and Hannchen were practically equal in bushel weight, followed by Husky and Vantage in that order.

TABLE No. 33.—COMMERCIAL GRADES IN PERCENTAGE (ZONES 1A TO 2E)

Variety	1 Feed	2 Feed	3 Feed
	%	%	%
Vantage	91.4	5.7	2.9
Husky	97.1	2.9	
Harlan	34.3 85.7	42.9 11.4	22.8

Table No. 33. Zones 1A to 2E. All varieties tested in this area were limited to the feed class. Husky, Vantage and Titan were practically equal in grading ability. Harlan graded somewhat lower due to lower bushel weight.



Lorence Peterson of Parkbeg, Richard Hennig of Stonehenge and Donald Dreger of Lorlie demonstrate the height of barley in their tests,

TABLE No. 34.—COMMERCIAL GRADES IN PERCENTAGE (ZONES 3A TO 4B)

1 C.W. 2R	2 C.W. 2R	3 C.W. 2R	1 Feed %	2 Feed %	3 Feed %				
_	_	_	78.6	19.0	2.4				
-	_	-	95.2	4.8	_				
64.3	11.9	7.1	16.7	_	_				
57.1	21.4	9.5	9.5	_	2.5				
	% — 64.3	1 C.W. 2R 2 C.W. 2R	1 C.W. 2R 2 C.W. 2R 3 C.W. 2R	% % % — — — 64.3 11.9 7.1 16.7 16.7	1 C.W. 2R 2 C.W. 2R 3 C.W. 2R 1 Feed % 2 Feed % 2				

Table No. 34. Zones 3A to 4B. At the time of this report Balder was not licensed, but for purposes of grading it was considered to be eligible

for the top malting grades and comparable to Hannchen. Husky and Vantage, because they are feed varieties, must be considered separately. On an average basis Husky graded somewhat higher than Vantage in this area. Balder graded slightly better than Hannchen.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

TABLE No. 35.—SUMMARIZED RESULTS FOR ZONE 1A (6 satisfactory tests)

	Vantage	Husky	Harlan	Titan
Yield in bushels per acre	53.3	49.5	52.1	47.4
Days from seeding to ripening	94.6	95.3	94.6	91.6
Plant height in inches	26.0	25.8	25.4	25.2
Straw strength (maximum of 10)	8.4	8.1	8.2	7.6
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.7	2.0	1.8	1.8
Bushel weight in pounds.	49.3	49.0	44.0	49.4
Commercial grades in percentage: 1 Feed	100.0	100.0	14.0	100.0
2 Feed			57.3	
3 Feed	_	-	28.7	_

Necessary difference-5.4 bushels.

Table No. 35. Vantage placed first in yield in Zone 1A. It had good straw strength and high bushel weight, and graded well.

Harlan placed second in yield. It matured at the same time as Vantage but because of its lower bushel weight, graded lower than the other varieties.

Husky placed third in yield. It matured relatively late and was weaker in neck strength than the other varieties, but graded well.

Titan placed fourth in yield but was relatively early in maturity. It had high bushel weight and graded well. In the past, Titan has performed well under limited moisture conditions.

The officially recommended varieties in this zone are Titan and Vantage.

TABLE No. 36.—SUMMARIZED RESULTS FOR ZONE GROUP 1B AND 1C (4 satisfactory tests)

	Vantage	Husky	Harlan	Titan
Yield in bushels per acre	55.7	53.6	56.0	53.2
Days from seeding to ripening	102.0	100.0	96.5	96.0
Plant height in inches	29.5	31.5	31.5	31.0
Straw strength (maximum of 10)	8.7	9.3	9.7	9.4
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.7	1.6	1.9	1.1
Bushel weight in pounds	50.3	50.8	45.5	50.3
Commercial grades in percentage: 1 Feed	100.0	100.0	50.0	100.0
2 Feed			25.0	_
3 Feed	-		25.0	-

Necessary difference-8.1 bushels.

Table No. 36. Harlan was high in yield, ripened relatively early and had good straw strength, but it was lower in bushel weight and grades than the other varieties.

Vantage placed second in yield. It was the latest maturing variety in this zone group and had the weakest straw.

Husky and Titan were practically equal in yield, straw strength and bushel weight. Titan was earlier than the other varieties.

Titan is the officially recommended variety in this zone due to its past performance under conditions of limited moisture.

TABLE No. 37.—SUMMARIZED RESULTS FOR ZONE 1D
(4 satisfactory tests)

	Vantage	Husky	Harlan	Titan
Yield in bushels per acre	61.0	67.1	61.7	58.9
Days from seeding to ripening	96.8	98.0	94.3	94.0
Plant height in inches	30.3	26.0	28.8	28.8
Straw strength (maximum of 10)	9.1	8.8	8.8	9.3
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.3	2.3	1.7	1.3
Bushel weight in pounds	48.5	48.6	46.0	46.5
Commercial grades in percentage: 1 Feed	100.0	100.0	100.0	100.0

No significant grain yield difference between varieties.

Table No. 37. In this zone the yield differences among varieties are not significant when analyzed statistically. Husky was later, shorter in straw, and weaker in neck strength than the other varieties. All varieties graded equally well.

Harlan was earlier than Vantage and Husky, but slightly later than Titan. It was somewhat lower in bushel weight than the other varieties.

Vantage was mid-late in maturity, exceeded the other varieties in height, and had good bushel weight, straw strength and neck strength.

Titan was earlier in maturity than the other varieties. It rated highest in straw strength and had good neck strength.

Vantage and Velvon 11 are officially recommended in this zone.

TABLE No. 38.—SUMMARIZED RESULTS FOR ZONE GROUP 2A AND 2E (4 satisfactory tests)

A LANCE CONTRACTOR OF LITTLE OF LITT	Vantage	Husky	Harlan	Titan
Yield in bushels per acre	57.2	50.1	58.8	54.0
Days from seeding to ripening	93.7	96.0	91.3	89.0
Height of plants in inches	26.3	28.2	26.2	24.0 7.2
Straw strength (maximum of 10)	8.4	9.3	8.9	7.2
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.6	1.6	1.6	1.6
Bushel weight in pounds	48.3	48.6	42.1	1.6 45.6 50.0
Commercial grades in percentage: 1 Feed	83.3	83.3	42.1 33.3	50.0
2 Feed	16.7	16.7	16.7	33.3
3 Feed		_	50.0	33.3 16.7

Necessary difference-6.3 bushels.

Table No. 38. Harlan was high in yield in this zone in 1953. It was medium early but because of its lower bushel weight, graded somewhat lower than the other varieties.

Vantage placed second in yield, was mid-late in maturity and had relatively high bushel weight.

Titan placed third in yield. It matured early but had weaker and shorter straw than the other varieties.

Husky placed fourth in yield. It matured late but had strong straw, high bushel weight and commercial grades.

Husky, Titan, Vantage and Velvon 11 are officially recommended for Zone 2A. Plush, Titan and Vantage are recommended for Zone 2E.

TABLE No. 39.—SUMMARIZED RESULTS FOR ZONE 2B
(8 satisfactory tests)

the facilities and state of the same	Vantage	Husky	Harlan	Titan
Yield in bushels per acre	56.4	51.9	52.6	44.7
Days from seeding to ripening	93.3	93.5	90.8	92.3
Height of plants in inches	27.8	28.3	27.8	27.0
Straw strength (maximum of 10)	8.2	8.3	8.0	7.8
Neck strength (basis: 1-strong; 2-medium; 3-weak)	2.2	2.6	2.0	2.2
Bushel weight in pounds	48.7	50.4	44.0	47.3
Commercial grades in percentage: 1 Feed	91.0	100.0	18.0	91.0
2 Feed		_	73.0	9.0
3 Feed	_	_	9.0	_

Necessary difference-5.6 bushels.

Table No. 39. Vantage was the highest yielding variety in this zone. It was relatively late in maturity but proved satisfactory in other characteristics.

Harlan placed second in yield. It matured early, but because of low bushel weight, it graded lower than the other varieties.

Husky placed third in yield and was late in maturity, but excelled in bushel weight. It was slightly weaker than the other varieties in neck strength.

Titan was low in yield and was slightly weaker than the other varieties in straw strength.

Husky, Vantage and Velvon 11 are officially recommended for this zone.

TABLE No. 40.—SUMMARIZED RESULTS FOR ZONE 2D (3 satisfactory tests)

	Vantage	Husky	Harlan	Titan
Yield in bushels per acre	36.0	36.5	34.2	32.6
Days from seeding to ripening	-	_	_	-
Plant height in inches	-	-	-	-
Straw strength (maximum of 10)	9.3	8.9	9.2	9.3
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.6	2.5	1.6	1.5
Bushel weight in pounds	49.7	50.3	43.0	48.0
Commercial grades in percentage: 1 Feed	67.0	100.0	33.0	67.0
2 Feed	_	_	33.0	33.0
3 Feed	33.0	_	34.0	_

Necessary difference-11.7 bushels.

Table No. 40. Husky outyielded the other varieties in this zone, although the yield differences were not significant. Husky was weaker in straw and neck strength than the other varieties but had high bushel weight and graded well.

Vantage placed second in yield. It had good straw strength, neck strength and bushel weight.

Harlan placed third in yield. It had strong straw but was low in bushel weight and grades.

Titan was lowest in yield but had good straw and neck strength, and graded well.

Husky, Vantage and Velvon 11 are officially recommended for this zone.

TABLE No. 41.—SUMMARIZED RESULTS FOR ZONE 3A (6 satisfactory tests)

	Vantage	Husky	Balder	Hanncher
Yield in bushels per acre	54.5	64.6	46.4	40.5
Days from seeding to ripening	89.3	90.5	90.3	91.3
Plant height in inches	31.6	32.4	28.6	32.2
Straw strength (maximum of 10)	8.3	8.8	8.6	7.9
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.6	1.9	2.3	2.1 50.2
Bushel weight in pounds	49.2	50.5	50.3	50.2
Commercial grades in percentage: 1 C.W. 2R		_	33.0	33.0
2 C.W. 2R	-	-	33.0	50.0
3 C.W. 2R			17.0	17.0
1 Feed	83.0	100.0	17.0	_
2 Feed	17.0	_	_	_

Necessary difference-11.4 bushels.

Table No. 41. Husky produced the highest yield in this zone, the difference being significant in the case of Balder and Hannchen. Husky had the strongest straw and highest bushel weight in the zone.

Vantage placed second in yield. It was superior in neck strength and ripened early, but was lower in bushel weight than the other varieties.

Balder placed third in yield. It was later maturing than Vantage but earlier than Husky and Hannchen. Balder was weaker in neck strength and shorter in straw than the other varieties.

Hannchen placed fourth in yield in this zone. It was later maturing and had weaker straw than the other varieties.

Husky, Vantage and Velvon 11 are officially recommended for this zone.

TABLE No. 42.—SUMMARIZED RESULTS FOR ZONE 3B (4 satisfactory tests)

	Vantage	Husky	Balder	Hanncher
Yield in bushels per acre	51.8	56.9	52.4	43.7
Days from seeding to ripening	80.5	82.5	83.5	83.0
Plant height in inches	40.5	39.0	35.5	38.0
Straw strength (maximum of 10)			_	
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.0	1.0	2.0	1.9
Bushel weight in pounds	47.6	50.4	51.0	50.6
Commercial grades in percentage: 1 C.W. 2R	_	_	80.0	80.0
1 Feed	80.0	100.0	20.0	
2 Feed	20.0	_	-	_
3 Feed	_		_	20.0

No significant grain yield difference between varieties.

Table No. 42. **Husky** produced the highest yield, although the yield differences were not significant in this zone. It ripened earlier and was taller than Balder and Hannchen, but had lower bushel weight.

Balder placed second in yield. It was later than the other varieties and was weaker in neck strength, but had the highest bushel weight.

Vantage placed third in yield. It ripened early and was taller than the other varieties, but was somewhat lower in bushel weight.

Hannchen was fourth in yield. It graded slightly lower than Balder. Husky, Montcalm, Vantage and Velvon 11 are officially recommended in this zone.

TABLE No. 43.—SUMMARIZED RESULTS FOR ZONE 3C (6 satisfactory tests)

	Vantage	Husky	Balder	Hanncher
Yield in bushels per acre	54.9	63.4	54.2	44.2
Days from seeding to ripening	95.5	99.5	101.0	99.0
Plant height in inches	27.5	29.5	25.0	29.8
Straw strength (maximum of 10)	8.3	8.6	8.9	7.7
Neck strength—(basis: 1-strong; 2-medium; 3-weak)		1.5	1.8	1.8
Bushel weight in pounds	47.7	49.1	51.4	1.8 51.8
Commercial grades in percentage: 1 C.W. 2R	_		55.6	22.2
2 C.W. 2R	_	_	11.1	44.5
3 C.W. 2R	_	-	11.1	11.1
1 Feed	77.8	88.8	22.2	22.2
2 Feed		11.2	_	1
3 Feed	11.1	_	_	_

Necessary difference—6.3 bushels.

Table No. 43. Husky significantly outyielded the other varieties in this zone. It was somewhat later than Vantage but was higher in bushel weight and grades.

Vantage placed second in yield, exceeding Hannchen significantly in this respect. It ripened early and had good neck strength, but was low in bushel weight.

Balder ranked third in yield. It had relatively high bushel weight and strong straw, but ripened late and was shorter than the other varieties.

Hannchen placed fourth in yield and had weaker straw than the other three varieties. It graded substantially lower than Balder.

Husky, Montcalm and Vantage are officially recommended for this zone.

TABLE No. 44.—SUMMARIZED RESULTS FOR ZONE GROUP 3D AND 3F (2 satisfactory tests)

	Vantage	Husky	Balder	Hannchen
Yield in bushels per acre	47.3	46.2	48.7	40.2
Days from seeding to ripening	94.7	97.3	99.3	99.0
Plant height in inches	26.3	29.0	23.3	26.0
Straw strength (maximum of 10)	9.2	8.5	8.7	7.3
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.4	1.7	2.7	2.8
Bushel weight in pounds	47.3	46.7	2.7 52.7	2.8 53.3
Commercial grades in percentage: 1 C.W. 2R			100.0	100.0
1 Feed	100.0	100.0	_	_

Necessary difference-8.6 bushels.

Table No. 44. Balder outyielded the other three varieties in this zone, although the differences were not of a significant nature. It was late maturing, short in straw, and weak in neck strength, but had good bushel weight and grades.

Vantage placed second in yield. It matured early and was stronger in straw and neck than the other varieties.

Husky placed third in yield. It was later maturing than Vantage but earlier than Balder and Hannchen. Husky and Vantage graded equally well.

Hannchen ranked fourth in yield. It was weaker in straw and neck strength, but higher in bushel weight than the other varieties.

Hannchen, Montcalm and Vantage are officially recommended for Zone 3D.

Hannchen, Husky, Montcalm and Vantage are the recommended varieties for Zone 3F.

TABLE No. 45.—SUMMARIZED RESULTS FOR ZONE 3E (5 satisfactory tests)

	Vantage	Husky	Balder	Hannchen
Yield in bushels per acre	67.9	71.8	62.9	55.4
Days from seeding to ripening	98.0	98.5	99.5	99.0
Height of plants in inches	31.0	29.5	25.5	27.8
Straw strength (maximum of 10)	8.6	7.2	6.6	7.9
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.6	2.1	2.0	7.9
Bushel weight in pounds	49.4	50.8	52.4	52.4
Commercial grades in percentage: 1 C.W. 2R	_	_	60.0	60.0
2 C.W. 2R		-	_	_
3 C.W. 2R		_	20.0	20.0
1 Feed	80.0	100.0	20.0	20.0
2 Feed	20.0	_		_

Necessary difference-5.8 bushels.

Table No. 45. Husky outyielded all other varieties in this zone, the yield differences being significant in the case of Balder and Hannchen. Husky was slightly higher than Vantage in bushel weight and grades.

Vantage placed second in yield. It excelled in height, straw strength and neck strength and ripened slightly earlier than the other varieties. Vantage was inferior in bushel weight and graded slightly lower than Husky.

Balder placed third in yield. It had short, weak straw and ripened comparatively late, but had good bushel weight.

Hannchen was outyielded by the other varieties. It was comparatively weak in neck strength, but equalled Balder in bushel weight and grades.

Montcalm and Vantage are officially recommended in this zone.

TABLE No. 46.—SUMMARIZED RESULTS FOR ZONE 3G (3 satisfactory tests)

	Vantage	Husky	Balder	Hannchen
Yield in bushels per acre.	59.6	56.2	39.9	46.3
Days from seeding to ripening	98.7	99.3	101.0	99.0
Plant height in inches	22.3	19.5	19.8	19.5
Straw strength (maximum of 10)	9.3	8.9	9.1	9.3
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.8	2.3	1.9	2.0 53.8
Bushel weight in pounds	50.0	52.5	53.5	53.8
Commercial grades in percentage: 1 C.W. 2R	-	-	50.0	75.0 25.0
2 C.W. 2R	_	-	25.0	25.0
1 Feed	100.0	100.0	25.0	

Necessary difference-12.7 bushels.

Table No. 46. Vantage was high in yield, exceeding Hannchen and Balder by differences which are significant. It was the earliest maturing of the varieties tested in this zone. It had good straw and neck strength but was lower than the other varieties in bushel weight.

Husky placed second in yield and was weak in neck strength. Husky and Vantage graded equally well, although Husky was slightly higher in bushel weight.

Hannchen was third in yield. It ripened earlier than Balder and graded slightly better.

Balder was outyielded by the other three varieties and was late in maturity.

Vantage is the only variety officially recommended for this zone.

TABLE No. 47.—SUMMARIZED RESULTS FOR ZONE 3J
(4 satisfactory tests)

	Vantage	Husky	Balder	Hannchen
Yield in bushels per acre	48.4	53.5	53.9	49.5
Days from seeding to ripening	97.0	98.0	99.0	98.0
Plant height in inches	34.7	33.3	29.7	30.0
Straw strength (maximum of 10)	9.5	9.5	9.3	9.4
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.3	1.6	2.3	1.9
Bushel weight in pounds.	47.3	48.3	53.3	9.4 1.9 53.0
Commercial grades in percentage: 1 C.W. 2R	_		100.0	100.0
1 Feed	100.0	75.0	-	200
2 Feed	-	25.0	-	

No significant grain yield difference between varieties.

Table No. 47. Balder was slightly higher in yield than the other varieties, but in no case was the difference significant. It was comparatively late in maturity and weak in neck strength, but had good bushel weight.

Husky placed second in yield and gave a generally satisfactory performance.

Hannchen placed third in yield. Compared with Balder, the only other two-rowed variety in these tests, Hannchen ripened earlier, was slightly superior in neck strength and approximately equal in other characteristics.

Vantage was low in yield in this zone. It excelled in earliness, neck strength and height, but was low in bushel weight.

Montcalm and Vantage are officially recommended in this zone.

TABLE No. 48.—SUMMARIZED RESULTS FOR ZONE GROUP 4A AND 4B
(5 satisfactory tests)

	Vantage	Husky	Balder	Hannchen
Yield in bushels per acre	49.8	61.9	55.2	47.6
Days from seeding to ripening	97.5	98.5	98.5	47.6 98.5
Plant height in inches	31.7	32.0	27.7	29.3
Straw strength (maximum of 10)	8.5	9.0	10.0	6.6
Neck strength—(basis: 1-strong; 2-medium; 3-weak)	1.5	1.5	1.0	1.0
Bushel weight in pounds	45.0	48.0	51.3	51.0
Commercial grades in percentage: 1 C.W. 2R		_	67.0	50.0
2 C.W. 2R			16.0	17.0
3 C.W. 2R		_		17.0
1 Feed	33.0	100.0	17.0	16.0
2 Feed	67.0	_		_

Necessary difference-7.2 bushels.

Table No. 48. Husky outyielded the other three varieties, exceeding Vantage and Hannchen significantly. Husky gave a generally satisfactory performance.

Balder placed second in yield. It was strong in straw and neck, and high in bushel weight and grades, but was shorter than the other varieties.

Vantage, which placed third in yield, was the earliest variety in this zone. It was low in bushel weight and grades.

Hannchen placed fourth in yield. It was lower in straw strength than the other varieties.

Montcalm and Vantage are officially recommended in Zone 4A. Vantage and Velvon 11 are recommended in Zone 4B.



Beverly Borsa of Smoky Burn and her barley test.

Table No. 49

Individual Summarized Results of All Tests-Barley

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the summarization according to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub- Dist.	Test Desig- nation	Yiel bus per Varieties acre	seeding to	Plant height in inches	Straw	Neck strength	Lbs. per meas- ured bushel	Com- mercial grades	Grading remarks
3A	1	1	В	BEVERLE Vantage 59.2 Husky 76.8 Balder 58.9 Hannchen, 44.0	3 -	LAND,	CARIEVA	ALE	5 53 53 51	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	Ξ
Necessar	y diffe	erence-	-6.5 bus						31	1 C. W. 210	
	1			GERALD	W. BIBER	DORF.	FROBIS	HER			
3A	1	4	В	Vantage 79.0 Husky 70.3 Balder 70.0 Hannchen 49.5	87 87 89	35 35 30 34	7.8 8.0 7.8 6.2	2.4 2.0 2.0 2.0	50 52 53 50	1 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R	=
Necessar	ry diffe	erence-	-7.6 bus		, ,	34	0.2	2.0	50	2 C. W. 2K	
				WESLEY	G. VOEC	HTING	. TRIBI	INE			
Necessar		7	B -7 0 bus	Vantage 51. Husky 56. Harlan 48. Titan 40.	1 82 1 87 6 84	22 23 24 20	10.0 9.2 10.0 8.4	3.0 2.0 3.0 2.0	48 49 40 45	1 Feed 1 Feed 3 Feed 2 Feed	=
14000000	- unit	rence	1.0 200		D 0777	~~~~					
2A		8 grain y	B rield diffe	Vantage 73.4 Husky 76.4 Harlan 66.4 Titan 73.6 erence between va	7 — 4 —	35 35 35 33 34	HUME	=	44 46 41 45	2 Feed 1 Feed 3 Feed 2 Feed	Ξ
	1717			ROVD I	P. PEDER	SON W	AUCHO	DF	-		
3A		10	A 5 6 bus	Vantage 40.9 Husky 44.2 Balder 41.3 Hannchen 33.2	9 88 2 90 8 95	27 29 26 29	9.6 9.8 10.0 9.8	2.0 1.8 2.0 2.0	52 50 48 52	1 Feed 1 Feed 3 C.W. 2R 1 C.W. 2R	Ξ
ivecessar											
2A 2A	1	s disca 6 9	B B	Frank A. Weinra Ken. F. Stocker,	auch, Torqu	iay.	pests, h	ail, drou	ght or of	her causes	3

WHEAT POOL DISTRICT 2

				ANNA E.	APPEL	QUIST.	NEPTUN	E			
2A Necessary	2 diffe	1 rence—	B -3.4 bu	Vantage 57.9 Husky 67.4 Harlan 73.7 Titan 61.3	107 110 99 101	32 33 29 32	8.0 9.6 8.6 5.6	1.2 1.2 1.0 1.6	52 52 47 53	1 Feed 1 Feed 1 Feed 1 Feed	Ξ
				ERIC 1	KOLLER	SCOTT	T LAKE		-		
1C	2	4	В	Vantage 55.9 Husky 72.2 Harlan 64.2 Titan 70.7	92 92 87 90	32 33 30 32	9.0 8.8 10.0 9.0	2.0 3.0 2.0 2.0	53 53 48 53	1 Feed 1 Feed 1 Feed 1 Feed	Ξ
Necessary	diffe	rence-	-9.1 bu	shels.							
			, ,	LEO H.	McKEE	STRAI	HALLEN				
1C	2	5	В	Vantage 22.3 Husky 14.4 Harlan 20.5 Titan 19.0	95 101 101 91	22 18 18 23	=	2.0 2.0 2.0 1.0	47 50 41 46	1 Feed 1 Feed 3 Feed 1 Feed	Ξ
Necessary	diffe	rence-	-3.2 bu	shels.							

Wheat Pool District 2-Continued

				Yield	Days	Plant			I be per		
Dist.	Sub- Dist.	Test Desig- nation		bus. per	seeding to ripening	height in inches	Straw strength	Neck strength	Lbs. per meas- ured bushel	Com- mercial grades	Grading
	2 1001	11001011							Duoner	gradeo	Territine
2	7	В				35		1.0	51	1 Feed	_
	Daniel I	150%	Husky	49.5	92	34	9.0	2.0	50	1 Feed	-
			Harlan	62.2				1.2			-
diff	erence-	-5.6 bus		30.3	00	30	9.0	2.0	31	1 Feed	
			C	ARL	H. SOR	ENSEN.	BURES				2011
2	9	В	Vantage	48.1	96		111 -	-	50	1 Feed	-
			Husky	48.8							
			Titan	37.9	95		_	- Linus	49	1 Feed	_
diff	erence-	-7.1 bus	hels.		0	MILE INC.	may of Lase	1. 500	18 110	post yet has	ionali se
			WHI	EAT	POOI	L DIS	TRICT	3	- 12	11-72	
		- 1	MO	BLEY	R CO	LLINS	McCORI)	7		
3	1	D	Vantage	62.4	97	27	9.2	1.0	49	1 Feed	_
			Husky	67.9			9.0	3.0		1 Feed	1000000
			Titan	64.3	94	29	9.2	1.0	52	1 Feed	_
cant	grain y	rield diffe	erence betwee	n vari	eties.		131	1201	198 -		
2	5	C	Ventere T.	LEE	SANDE			2.0	55	1 Food	
3	3	C			104	35	9.0	2.0	56	1 Feed	_
			Harlan	86.0	95	35	10.0	2.0	49	1 Feed	_
cant	grain y	vield diffe				34	10.0	1.0	55	1 Feed	-
						NICKE	CADILL	AC			
3	9	В	Vantage	32.8	_	_	8.0	2.0	49	1 Feed	_
					_		8.0	3.0			_
			Titan	31.1	_				49	1 Feed	_
diff	erence-	-4.9 bus	hels.			1000	79.00	- BELLEVILLE			
		-	BER	NARI	J. PIG	OTT,					
3	10	В	Vantage	32.0	82		9.0			1 Feed	_
			Harlan	26.5	80	24	10.0	2.4	45	2 Feed	W. W. D. T. S.
diff	erence-	_2 9 bus	I itan	30.1	76	23	9.0	1.4	46	1 Feed	-
	-			dam	age by fl	looding	nosts he	il dron	ght or o	ther enuce	
3	4	B					pests, ne	in, urou	SHU OI O	mer cause	
			WH	EAT	POO	L DIS	TRICT	4			
			GO	RDO			LE CREE				
4	2	В	GO Vantage	RDON 60.0					50 50	1 Feed	_
4	2	В	Vantage Husky Harlan	RDON 60.0 53.3 40.1					50 42	1 Feed 3 Feed	Ξ
			GO Vantage Husky Harlan Titan	RDON 60.0 53.3 40.1					50	1 Feed	
		B -6.2 bus	Vantage Husky Harlan Titanshels.	RDON 60.0 53.3 40.1 53.1	FORD	, MAPI	LE CREEI	K	50 42	1 Feed 3 Feed	alizu <u>un</u> e
			Vantage Husky Harlan Titanshels.	RDON 60.0 53.3 40.1 53.1 T FR	FORD	, MAPI		K	50 42 47	1 Feed 3 Feed	Ξ
diff	erence-	-6.2 bus	Vantage Husky Harlan Titanshels. ALBER Vantage Husky	RDON 60.0 53.3 40.1 53.1 T FR 41.1 38.9	FORD	H, GOL	DEN PRA	K	50 42 47 47 47	1 Feed 3 Feed 1 Feed 1 Feed 1 Feed	
diff	erence-	-6.2 bus	Vantage Husky Harlan Titanshels. ALBER Vantage Husky	RDON 60.0 53.3 40.1 53.1 T FR 41.1 38.9 47.4	FORD	H, GOL	DEN PRA 8.8 9.8 9.6	AIRIE 1.4 1.2 1.8	50 42 47 47 47 47 45	1 Feed 3 Feed 1 Feed 1 Feed 1 Feed 2 Feed	
diff	erence-	-6.2 bus	Vantage Husky Harlan Titanshels. ALBER Vantage Husky	RDON 60.0 53.3 40.1 53.1 T FR: 41.1 38.9 47.4 42.7	EIMUTE	H, GOL	DEN PRA	K	50 42 47 47 47	1 Feed 3 Feed 1 Feed 1 Feed 1 Feed	
diff 4	6 grain y	–6.2 bus B	Vantage	RDON 60.0 53.3 40.1 53.1 T FR 41.1 38.9 47.4 42.7 en vari	EIMUTE	H, GOL: 28 28 28 28 28	DEN PRA 8.8 9.8 9.6	AIRIE 1.4 1.2 1.8 1.2	50 42 47 47 47 47 45 48	1 Feed 3 Feed 1 Feed 1 Feed 1 Feed 2 Feed 1 Feed	
diff	erence-	-6.2 bus	Vantage Husky Harlan Titan shels. ALBER Vantage Husky Harlan Titan erence betwee	RDON 60.0 53.3 40.1 53.1 T FR: 41.1 38.9 47.4 42.7 en vari	EIMUTE	H, GOL: 28 28 28 28 28	DEN PRA 8.8 9.8 9.6 9.0	AIRIE 1.4 1.2 1.8 1.2	50 42 47 47 47 45 48	1 Feed 3 Feed 1 Feed 1 Feed 2 Feed 1 Feed	
diff 4	6 grain y	–6.2 bus B	Vantage	RDON 60.0 53.3 40.1 53.1 T FR: 41.1 38.9 47.4 42.7 en vari RBER' 14.4 10.0 28.2	EIMUTE	H, GOL: 28 28 28 28 28	DEN PRA 8.8 9.8 9.6 9.0	AIRIE 1.4 1.2 1.8 1.2	50 42 47 47 47 47 45 48	1 Feed 1 Feed 1 Feed 1 Feed 2 Feed 1 Feed 2 Feed 2 Feed 2 Feed 2 Feed	
diff 4 icant	6 grain y	B yield diffe	Vantage Husky Harlan Titan shels. ALBER Vantage Husky Harlan Titan erence betwee	RDON 60.0 53.3 40.1 53.1 T FR 41.1 38.9 47.4 42.7 en vari RBER 14.4 10.0 28.2 7.8	FIMUTE ieties.	H, GOLL 28 28 28 28 28	DEN PRA 8.8 9.8 9.6 9.0	AIRIE 1.4 1.2 1.8 1.2	50 42 47 47 47 45 48 50 45	1 Feed 3 Feed 1 Feed 1 Feed 2 Feed 1 Feed	
diff 4 icant	6 grain y 7	B B B Ce—Yield	Vantage	RDON 60.0 53.3 40.1 53.1 T FR 41.1 38.9 47.4 42.7 en vari 14.4 10.0 28.2 7.8 zone s	FORD EIMUTH deties. T I. ST(H, GOLL 28 28 28 28 28 28	DEN PRA 8.8 9.8 9.6 9.0	AIRIE 1.4 1.2 1.8 1.2	50 42 47 47 47 45 48 50 45 47	1 Feed 3 Feed 1 Feed 1 Feed 2 Feed 1 Feed 2 Feed 1 Feed 2 Feed 1 Feed 2 Feed 1 Feed	
diff 4 icant	6 grain y	B yield diffe	Vantage Husky Harlan Titan shels. Vantage Husky Harlan Titan erence betwee Vantage Husky Harlan Titan Itan Vantage Harlan Titan Itan Vantage LLO Vantage Vantage LLO Vantage Vantage LLO Vantage Vantage LLO Vantage Vantage LLO Vantage Vantage LLO Vantage	RDON 60.0 53.3 40.1 53.1 T FR: 41.1 38.9 47.4 42.7 en vari 10.0 28.2 7.8 20.0 8 20.0 8	EIMUTE deties. T I. STO summary 1. ROSE 99	H, GOLL 28 28 28 28 28 28	DEN PRA 8.8 9.8 9.6 9.0 EICHMON	AIRIE 1.4 1.2 1.8 1.2	50 42 47 47 47 45 48 50 45 47 49	1 Feed 3 Feed 1 Feed 1 Feed 1 Feed 2 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 1 Feed	
diff 4 dicant 4	6 grain y 7	B B B Ce—Yield	Vantage Husky Harlan Titan shels. Vantage Husky Harlan Titan erence betwee Vantage Husky Harlan Titan Itan Vantage Harlan Titan Itan Itan Vantage LLO Vantage Vantage	RDON 60.0 53.3 40.1 53.1 T FR: 41.1 38.9 47.4 42.7 en vari 10.0 28.2 7.8 20.0 8 20.0 8	EIMUTE deties. T I. STO summary 1. ROSE 99 97	H, GOLL 28 28 28 28 28 28	DEN PRA 8.8 9.8 9.6 9.0 EICHMON MENDHA 9.4	AIRIE 1.4 1.2 1.8 1.2	47 47 47 47 45 48 50 45 47 49	1 Feed 3 Feed 1 Feed 1 Feed 1 Feed 2 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed	
difficant 4 aged 4	ference—6 grain y 7 by mic	B wield differ B ce—Yield B	Vantage Husky Harlan Titan shels. ALBER Vantage Husky Harlan Titan Titan Titan Itian Itian Vantage Husky Harlan Itian Is not used in LLO Vantage Husky Harlan Husky Harlan Titan Itian Itian.	RDON 60.0 53.3 40.1 53.1 T FR: 41.1 38.9 47.4 42.7 en vari 10.0 28.2 7.8 20.0 8 20.0 8	EIMUTE deties. T I. STO summary 1. ROSE 99	H, GOLL 28 28 28 28 28 28	DEN PRA 8.8 9.8 9.6 9.0 EICHMON	AIRIE 1.4 1.2 1.8 1.2	50 42 47 47 47 45 48 50 45 47 49	1 Feed 3 Feed 1 Feed 1 Feed 1 Feed 2 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 1 Feed	
difficant 4 aged 4	ference—6 grain y 7 by mic	B B B Ce—Yield	Vantage Husky Harlan Titan shels. ALBER Vantage Husky Harlan Titan Titan Titan Itian Itian Vantage Husky Harlan Itian Is not used in LLO Vantage Husky Harlan Husky Harlan Titan Itian Itian.	RDON 60.0 53.3 40.1 53.1 T FR: 41.1 38.9 47.4 42.7 en vari 10.0 28.2 7.8 20.0 8 20.0 8	EIMUTH deties. T I. ST(Summary 1. ROSE 99 97 98	H, GOLL 28 28 28 28 28 28	DEN PRA 8.8 9.8 9.6 9.0 EICHMON — — — — — MENDHA 9.4	AIRIE 1.4 1.2 1.8 1.2	50 42 47 47 47 45 48 50 45 47 49 50 46	1 Feed 3 Feed 1 Feed 1 Feed 2 Feed 1 Feed 2 Feed 1 Feed	
	2 diffe 2 diffe 3 cant 3 cant 3 diffe Tes	difference— 2 9 difference— 3 1 cant grain y 3 5 cant grain y 3 9 difference— 3 10 difference—	difference—5.6 bus 2 9 B difference—7.1 bus 3 1 D cant grain yield difference—3 5 C cant grain yield difference—4.9 bus 3 10 B difference—2.9 bus Tests discarded on	RICE 2 7 B Vantage Husky	RICHARD Vantage 56 3 Husky 49.5 Harlan 62.2 Titan 50.3	RICHARD HENNI	RICHARD HENNIG, STO	RICHARD HENNIG, STONEHENG 2 7 B Vantage 56.3 93 35 10.0 Husky 49.5 92 34 9.0 Harlan 62.2 92 35 10.0 Titan 50.3 86 38 9.0 difference—5.6 bushels. CARL H. SORENSEN, BURES 2 9 B Vantage 48.1 96 — Husky 48.8 97 — — Harlan 38.8 96 — — Harlan 38.8 96 — — Harlan 37.9 95 — — difference—7.1 bushels. WHEAT POOL DISTRICT WMORLEY R. COLLINS, McCORI 3 1 D Vantage 62.4 97 27 9.2 Husky 62.8 98 28 9.0 Harlan 67.9 93 31 9.6 Titan 64.3 94 29 9.2 cant grain yield difference between varieties. T. LEE SANDERSON, SENATE 40.0 Husky 83.4 103 35 9.0 Harlan 86.0 93 35 10.0 Titan 83.4 93 34 10.0 cant grain yield difference between varieties. WALTER H. WERNICKE, CADILL 3 9 B Vantage 32.8 — 8.0 Harlan 23.7 — 10.0 Titan 31.1 — 9.2 difference—4.9 bushels. BERNARD J. PIGOTT, ANEROID 4 difference—4.9 bushels. BERNARD J. PIGOTT, ANEROID 4 difference—2.9 bushels. Tests discarded on account of damage by flooding, pests, has restered a control of damage by flooding, pests, has restered a control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered and control of damage by flooding, pests, has restered	RICHARD HENNIG, STONEHENGE	RICHARD HENNIG, STONEHENGE 2 7 B Vantage 56.3 93 35 10.0 1.0 50 Harlam 62.2 92 35 10.0 1.2 45 Titan 50.3 86 38 9.0 2.0 51 difference—5.6 bushels. CARL H. SORENSEN, BURES 2 9 B Vantage 48.1 96 50 48.8 97 50 48.8 96 50 49 difference—7.1 bushels. WHEAT POOL DISTRICT 3 WHEAT POOL DISTRICT 3 WHE	RICHARD HENNIG, STONEHENGE 2 7 B Vantage 56.3 93 35 10.0 1.0 51 1 Feed Husky 49.5 92 34 9.0 2.0 50 1 Feed Harlan 62.2 92 35 10.0 1.2 45 2 Feed Gifference—5.6 bushels.

Husky
1A
XENNETH G. CHRISTOPHER, PAMBRUN 1
1A
P. WAYNE SHELDON, OLD WIVES
Husky
Necessary difference—4.8 bushels. LORENCE I. PETERSON, PARKBEG 1A
1A
Necessary difference—3.8 bushels. Tests discarded on account of damage by flooding, pests, hall, drought or other causes 5 3 C Thomas J. Runcie, Pambrun.
WHEAT POOL DISTRICT 6
WHEAT POOL DISTRICT 6 PETER G. WARNKE, SEDLEY 2A 6 2 B Vantage 39.7 - 29 5.4 1.2 46 1 Feed - Husky 27.4 - 36 9.0 1.0 43 2 Feed - Harlan 25.6 - 32 7.0 1.0 35 3 Feed - Titan 12.1 - 27 3.8 1.8 35
PETER G. WARNKE, SEDLEY 2A
2A 6 2 B Vantage 39.7 — 29 5.4 1.2 46 1 Feed — Husky 27.4 — 36 9.0 1.0 43 2 Feed — Harlan 25.6 — 32 7.0 1.0 35 3 Feed — Titan 12.1 — 27 3.8 1.8 35 3 Feed — Titan 12.1 — 27 3.8 1.8 35 3 Feed — Titan 12.1 — 27 3.8 1.8 35 3 Feed — Titan 12.1 — 27 3.8 1.8 35 3 Feed — Titan 12.1 — 27 3.8 1.8 35 3 Feed — Titan 12.1 — 27 3.8 1.8 48 1 Feed — Husky 53.6 104 — 9.8 1.8 48 1 Feed — Harlan 70.0 101 — 9.8 1.8 48 1 Feed — Titan 70.0 101 — 9.8 1.4 45 2 Feed — Titan 70.0 101 — 9.8 1.4 45 2 Feed — Titan 64.8 101 — 9.6 2.0 50 1 Feed — Necessary difference—8.6 bushels.
Necessary difference—8.6 bushels. WILFRED R. FILAZEK, SPRING VALLEY WILFRED R. FILAZEK, SPRING VALLEY 10.0 2.0 50 1 Feed — 10.0
IA 6 4 B Vantage 65.0 101 — 10.0 2.0 50 1 Feed — Husky 53.6 104 — 9.8 1.8 48 1 Feed — Harlan 70.0 101 — 9.8 1.4 45 2 Feed — Titan 64.8 101 — 9.6 2.0 50 1 Feed — Necessary difference—8.6 bushels.
Necessary difference—8.6 bushels.
DICK T. LOWERY, ROWATT
2E 6 7 D Vantage 45.9 — 26 9.0 1.2 51 1 Feed — Husky 45.9 — 26 9.0 1.0 52 1 Feed — Harlan 46.5 — 26 9.0 1.0 47 1 Feed — Titan 40.3 — 23 8.4 1.6 50 1 Feed —
No significant grain yield difference between varieties.
3C 6 9 B Vantage. 42.2 97 29 9.0 1.0 47 1 Feed — Husky 48.5 100 31 9.0 1.0 49 1 Feed — Balder 42.9 104 26 9.0 1.8 52 1 C.W. 2R — Hannchen. 36.8 100 33 5.8 1.4 52 1 C.W. 2R —
Necessary difference—4.4 bushels.
WHEAT POOL DISTRICT 7
BA 7 1 B Vantage 40.2 94 37 6.0 1.0 45 2 Feed —
Husky 70.3 97 41 8.0 1.0 49 1 Feed — Balder 37.5 89 35 8.0 2.0 50 2 C.W. 2R — Hannchen 36.6 91 40 6.0 2.0 50 2 C.W. 2R — Necessary difference—7.2 bushels.
MELBOURNE C. KING, LANGBANK
3A 7 3 B Vantage 56.3 — 27 9.6 1.0 46 1 Feed — Husky 68.1 — 25 9.4 2.6 46 1 Feed — Balder 11.9 — 26 8.4 3.0 46 1 Feed — Hannchen, 30.8 — 28 9.4 2.4 47 3 C.W. 2R
Necessary difference—4.6 bushels.

Wheat Pool District 7—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test Desig- nation	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Neck strength	Lbs. per meas- ured bushel	Com- mercial grades	Grading
2A	7	5 by floor	C	Vantage Husky Harlan Titanields not use	27.2 26.9 20.2 14.5	92 91 91 90	14 16 13 8	9.8 9.6 9.8 10.0	2.6 2.6 2.0 1.0	49 50 43 46	1 Feed 1 Feed 2 Feed 1 Feed	Ξ
- CSt dan	nageu	Dy 1100	unig 1			EAUDIN		TMARTE)F			
3A No signi	7 ficant	6 grain y	B ield diffe	Vantage Husky Balder Hannchen erence between	51.4 57.4 58.5 48.6	88 88 88 89	32 32 32 26 30	= = = =	=	52 53 52 51	1 Feed 1 Feed 2 C.W. 2R 2 C.W. 2R	S.G. S.G.
	-			CLA	RENC	E GELO						
3C	7	11	B O bue	Vantage Husky Balder Hannchen	51.8	94 99 98 98	28 30 26 31	7.0 8.2 9.4 8.0	1.0 1.0 1.2 1.8	48 48 51 52	1 Feed 1 Feed 1 Feed 1 Feed	G. G.
				account o	f dam	age by fl	noding	nocte he	il drow	wht or o	ther correct	
3B 3C	7 7	2 8	B B	Edward A. M. Gilbert	Plewes	, Moosom	in.	pesus, na	in, urou	gnt or o	ther causes	
				WH	EAT	POOL	. DIS	TRICT	8			
		100				ZRUDLO	, wro	XTON				
3B	8	1	В	Vantage Husky Balder Hannchen	65.2 74.6 71.0 56.2	Ξ	Ξ	=	=	47 51 52 52	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	=
Necessar	y diffe	rence—	10.6 bu				- ~					
3B	8	2	В	Vantage Husky Balder Hannchen.	41.1 43.7 38.9	IA KELL	Y, SAL	TCOATS	=	49 51 54 54	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	Ξ
Necessar	y diffe	rence—	7.3 bush	nels.	30.4					34	1 C.W. 210	
3C	8 naged 1	4 ov flood	B ling—Yi	RICI Vantage Husky Balder Hannchen elds not used	13.8 15.4 20.3 18.1	w. ROU	22 24 22 27	YORKTO	ON	41 43 48 48	3 Feed 2 Feed 3 C.W. 2R 3 C.W. 2R	=
		,				D BERN		RIGIN				
3B	8	5		Vantage Husky Balder Hannchen	58.6 58.7 53.2 47.8	81 83 84 84	36 36 32 36	10.0 10.0 10.0 4.2	1.0 1.0 2.0 1.8	50 51 54 52	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	=
o signii	icant į	grain yr	eia dille	rence betwee		FULLAY	TITA T	ADMOR	TO			
3B	8	6		Vantage Husky Balder Hannchen	42.4 50.5 46.3		— — —	ADMOR	=	48 51 51 53	1 Feed 1 Feed 1 C.W. 1R 1 C.W. 2R	=
No signif	icant (grain yi	eld diffe	rence betwee	n vari	eties.					10.11.210	
3C	8	7		Vantage Husky Balder Hannchen	21.6 25.7 28.2 20.5	CHERNI	31 33 26 28	7.0 7.0 8.0 8.0	3.0 3.0 2.0 2.0	50 49 51 50	1 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R	=
l est dam	aged h	by hail a	and bird	s—Yields no	-							
3B	8	9	В	Vantage Husky Balder	73.0 80.7 45.9	80 82 83	45 42 39	-	1.0 1.0 2.0	44 48 46	2 Feed 1 Feed 1 Feed	=
				Hannchen	43.9	82	40		2.0	42	3 Feed	

Cereal Variety Zone	Dist.	Sub- Dist.	Test Desig- nation		Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Neck strength	Lbs. per meas- ured bushel	Com- mercial grades	Grading
	-				VIOI	ET HIL	LIAR. I	TUNA				
3C	9	1	В	Vantage	63.6	_		10.0	1.0	51	1 Feed	_
				Husky	79.9	-	-	10.0	1.0	53	1 Feed	-
				Balder Hannchen	38 2			9.0	2.0	53 50	1 C.W. 2R 2 C.W. 2R	_
Necessary	diffe	rence-	-6.1 bus		30.2			7.0	2.0	50	20.11.210	
20	0	2	В				RHEAD), LEROS		50	1 Food	
3C	9	. 3	Ь	Vantage Husky	56.5		34 32	6.8	1.8	51	1 Feed 1 Feed	
				Balder	53.7	_	32	4.6	1.8	53	1 Feed	G.
Necessary	diffe	rence-	-3 6 bus	Hannchen	44.0	_	32	5.2	1.8	52	1 Feed	G.
100000017					TERR	Y H. BA	TTY. S	SILTON				
2B	9	4	В	Vantage	103.2	_		_	_	53 52	1 Feed	_
				Husky Harlan	82 1		_	_		46	1 Feed 1 Feed	
				Titan	80.0		_	-	-	50	1 Feed	_
Samples i	ncom	plete d	ue to lod	lging—Yields	not u	sed in zor	ne summ	ary.				
n D	9	6	С	Vantage		J. ROCE	XEL, LA	ANIGAN	2.8	50	1 Feed	
2B	,	U		Husky	51.3	_	30	7.0	3.0	49	1 Feed	_
				Harlan Titan	62.7	-	30	6.4	2.8	45	2 Feed	-
Necessary	diffe	rence-	-6.5 bus	Titanhels.	30.3	_	29	5.8	2.8	48	1 Feed	_
				I	OUGI	LAS J. S	MITH.	DAFOE	181			
2B	9	8	В	Vantage	65.0	-	_	-	-	50	1 Feed	-
				Husky Harlan	35.4			STATE OF		50 44	1 Feed 2 Feed	_
				Titan	64.4	_	_	_	_	47	1 Feed	_
Test dam	aged	by shar	ttering—	Yields not u	sed in	zone sum	mary.					
20	0	0	В	Vantaga	EORGI	E W. PE	RRY, V	WISHAR'	Г	50	1 Food	
3C	9	9	D	Vantage Husky	72.5	_			_	50 51	1 Feed 1 Feed	
				Balder	66.0		-	_	-	52	1 C.W. 2R	_
Necessary	diffe	rence-	-8.0 bus	Hannchen hels.	57.0			170		51	1 C.W. 2R	_
Necessary					f dam	age by fl	looding,	, pests, h	ail, drou			5
	Test	s disc	arded or	n account o R. Arthur V	f dam William	is, Cupar.		, pests, h	A print			S
	Test	ts disc	arded or B	n account o R. Arthur V	of dam William	is, Cupar.	DIST	TRICT	A print	ght or o	ther cause	5
	Test 9	s disc	arded or	whels. n account o R. Arthur V	ef dam William	POOL	DIST	TRICT	A print	ght or o	ther cause	5
3C	Test 9	ts disc	arded or B	whels. Note the second of the	EAT STAI 70.2 56.2	POOL	DIST	TRICT	A print	50 52	ther cause	S
3C2B	Test 9	ts disc 2	B	whels. n account of R. Arthur V WHE Vantage Husky Harlan Titan	### ##################################	POOL	OAN, C	TRICT	A print	ght or o	ther cause	S
3C	Test 9	ts disc 2	B	Vantage Husky Harlan History	STAI 70.2 56.2 68.8 53.6	POOL N W. SL	OAN, C	CRAIK	10	50 52 44	1 Feed 1 Feed 2 Feed	S
3C2B	Test	1	B B -4.3 bus	vantage Husky Harlan Titan Hels.	STAI 70.2 56.2 68.8 53.6	POOL N W. SL	OAN, C	TRICT	10	50 52 44 49	1 Feed 1 Feed 2 Feed 1 Feed	5
3C2B	Test	ts disc 2	B	Vantage	STAT STAT 70.2 56.2 68.8 53.6 AYNE 48.5 48.5	POOL N W. SL	OAN, C	CRAIK	10	50 52 44	1 Feed 1 Feed 2 Feed	5
3C2B	Test	1	B B -4.3 bus	Vantage Husky Harlan Husky Vantage Husky Harlan Titan hels. W Vantage Husky Harlan Husky	STAI 70.2 56.2 68.8 53.6 AYNE 48.5 49.5 50.6	POOL N W. SL	OAN, C	CRAIK	10	50 52 44 49	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 2 Feed	s
3C2B	Test 9 10 10 10	1 erence—2	B B -4.3 bus	VantageHuskyHels. VantageHuskyHarlantitanhels. VantageHuskyHarlanTitanhels.	STAI 70.2 56.2 68.8 53.6 AYNE 48.5 49.5 50.6	POOL N W. SL	OAN, C	CRAIK	10	50 52 44 49	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed	S
2B	Test 9 10 10 10	ts disc. 2	B B -4.3 bus	VantageHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlanHuskyHarlan	FAT STAT 70.2 56.2 68.8 53.6 AYNE 48.5 45.5 50.6 38.8	POOL N W. SL	OAN, C 344 36 33 33 33 SON, T	TRICT ORAIK	10	50 52 44 49	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 2 Feed	S
2B	Test 9	ts disc. 2	B B -4.3 bus	Vantage Husky Harlan Husky Vantage Husky Harlan Titan Hels. W Vantage Husky Vantage Fusky Vantage Fusky Vantage Fusky Vantage	EAT STAI 70.2 56.2 68.8 53.6 AYNE 48.5 45.5 50.6 38.8	POOL N W. SL	OAN, C 344 36 33 33 33 SON, T	TRICT ORAIK	10	50 52 44 49 49 49 49 50	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed	s
2B	Test 9	1 erence—2	B -4.3 bus B -5.3 bus	Vantage Husky Harlan Husky Harlan Hels. Vantage F Vantage F Vantage F Vantage Husky	STAI 70.2 56.2 68.8 53.6 48.5 45.5 50.6 38.8 COSTE 73.0 66.9	POOL N W. SL	OAN, C 344 36 33 33 33 SON, T	TRICT ORAIK	10	50 52 44 49 49 44 50	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 2 Feed 1 Feed 1 Feed	s
3C 2B Necessary	Test 9	1 erence—2	B -4.3 bus B -5.3 bus	Vantage Husky Harlan Husky Vantage Husky Harlan Titan Hels. W Vantage Husky Vantage Fusky Vantage Fusky Vantage Fusky Vantage	STAI 70.2 56.2 68.8 53.6 AYNE 48.5 50.6 38.8 OSTE 73.0 66.9 54.5	POOL N W. SL	OAN, C 344 36 33 33 33 SON, T	TRICT ORAIK	10	50 52 44 49 49 49 49 50	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed	s
2B	10 v differ 10 v differ 10	1 erence—2	B -4.3 bus B -5.3 bus	Vantage	STAI 70.2 56.2 68.8 53.6 AYNE 48.5 50.6 38.8 OSTE 73.0 66.9 54.5	POOL N W. SL	OAN, C 344 36 33 33 33 SON, T	TRICT ORAIK	10	50 52 44 49 49 49 44 50	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 3 Feed 3 Feed	s
2B Necessary 2B	10 10 10 10 10 10 10 10 10 10 10	1 1 rence— 2 5	B -4.3 bus B -5.3 bus D -6.0 bus	Vantage Husky Harlan Husky Harlan Hels. Vantage Husky Husky Harlan Titan hels. F Vantage Titan hels. F Vantage Husky Harlan F Husky Harlan Hels.	STAI 70.2 2 68.8 53.6 48.5 50.6 38.8 OSTE 73.0 OSTE 66.9 54.5 62.0 OON P	POOL N W. SL L. WIL	OAN, C 344 366 33 33 33 SON, T	TRICT ORAIK	10	50 52 44 49 49 44 50	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed	s
2B Necessary 2B	10 10 10 10 10 10 10 10 10 10 10	1 erence—2	B -4.3 bus B -5.3 bus	Vantage Husky Harlan Titan hels. F Vantage Husky Harlan Titan hels. F Vantage Husky Harlan Titan hels. F Vantage Husky Larlan Titan hels. F Vantage LI Vantage	STAT 70.2 STAT 70.2 68.8 53.6 63.6 64.5 50.6 38.8 OSTE 73.0 OSTE 7	POOL N W. SL L. WIL	OAN, C 344 366 33 33 33 SON, T	PUGASKE	10	50 52 44 49 49 49 49 44 50	1 Feed 1 Feed 2 Feed 1 Feed	s
2B Necessary 2B	10 10 10 10 10 10 10 10 10 10 10	1 1 rence— 2 5	B -4.3 bus B -5.3 bus D -6.0 bus	Vantage	STAT STAT STAT STATE STA	POOL N W. SL L. WIL	OAN, C 344 366 33 33 33 SON, T	PUGASKE	10	50 52 44 49 49 44 50	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed 1 Feed	s
2B Necessary 2B	10 v differ 10 v differ 10 v differ 10	1 1 rence- 5 ference- 6	B -4.3 bus B -5.3 bus D -6.0 bus	Vantage Husky Harlan Titan hels. Vantage Husky Harlan Titan hels. Vantage Husky Harlan Titan hels. F Vantage Vantage Harlan Titan hels. ELI Vantage Husky Harlan Titan hels.	STAT 70.2 2 68.8 53.6 45.5 50.6 38.8 0STE 73.0 064.9 562.0 0ON P 38.8 31.2 34.7	POOL N W. SL L. WIL	OAN, C 344 366 33 33 33 SON, T	PUGASKE	10	50 52 44 49 49 44 50 50 51 41 46	1 Feed 1 Feed 2 Feed 1 Feed 1 Feed 1 Feed 1 Feed 2 Feed 1 Feed	s
2B	10 v differ 10 v differ 10 v differ 10	1 1 rence- 5 ference- 6	B -4.3 bus B -5.3 bus D -6.0 bus	Vantage Husky Harlan Titan hels. Vantage Husky Harlan Titan hels. Vantage Husky Harlan Titan hels. F Vantage Vantage Harlan Titan hels. ELI Vantage Husky Harlan Titan hels.	STAT 70.2 2 68.8 53.6 45.5 50.6 38.8 0STE 73.0 064.9 562.0 0ON P 38.8 31.2 34.7	POOL N W. SL L. WIL	OAN, C 344 366 33 33 33 SON, T	PUGASKE	10	50 52 44 49 49 49 44 50	1 Feed 2 Feed	s
DB	10 v diffee 10 v d	1 1 rence- 5 rence- 6	B -4.3 bus B -5.3 bus D -6.0 bus B	Vantage Husky Harlan Titan hels. Vantage Husky Harlan Titan hels. Vantage Husky Harlan Titan hels. F Vantage Vantage Harlan Titan hels. ELI Vantage Husky Harlan Titan hels.	STAI 70.2 2 68.8 53.6 48.5 50.6 38.8 OSTE 73.0 ON P 38.8 2 34.7 35.6 f dam	POOL N W. SL L. WIL R I. CLA C. MADS	OAN, C 34 36 33 33 33 SON, T	PUGASKE	10 = = = = = = = = = = = = = = = = = = =	50 52 44 49 49 49 44 50 51 41 46	1 Feed	

								RIGI				
Cereal Variety Zone	Dist.	Sub- Dist.	Test Desig- nation	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per meas- ured bushel	Com- mercial grades	Gradin
					ANN	E. CALW	ELL, E	LROSE				
1D	11	2	В	Vantage Husky Harlan Titan	81.0 77.1 73.4	101 103 102 101	38 33 33 35	9.0 8.4 7.8 8.6	2.2 3.0 3.0 2.2	50 52 46 49	1 Feed 1 Feed 1 Feed 1 Feed	=
No signif	icant	grain y	iela diffe	erence betwe							- 20	
• • • • • • • • • • • • • • • • • • • •		0	0			102	NS, HE			46	1 Feed	
1D	11	8	С	Vantage Husky Harlan Titan	53.8 48.5	102 105 99	23 26 25	9.0 10.0 10.0 10.0	1.0 2.0 1.0	46 47 46 47	1 Feed 1 Feed 1 Feed 1 Feed	=
No signif	icant	grain y	ield diffe	erence betwe			23	10.0				
				R	ALPH	G. HUR	ST, DO	DSLANI)			
2D	11	9	В	Vantage		-	-	10.0	1.0	52 53	1 Feed	-
				Husky Harlan Titan	41.5	=	Ξ	9.0 10.0 10.0	2.0 1.0 1.0	48 51	1 Feed 1 Feed 1 Feed	=
Necessar	y diffe	erence-	-6.3 bus	hels.								11094
						H. WAR						
D	11	10	В	Vantage Husky Harlan Titan	72.0 67.2	91 91 88 90	30 24 29 27	10.0 9.0 10.0 10.0	1.0 2.0 1.0 1.0	49 49 46 51	1 Feed 1 Feed 1 Feed 1 Feed	=
1A		-		account of David L. B. Elwyne Kle	dams	age by flo	ooding,	pests, ha	il, droug	tht and	other caus	es
1A	Test	s disca	rded on B	account of David L. B. Elwyne Kle	dams anks, l	age by flo				tht and	other caus	ees
1A	Test	s disca	rded on B	account of David L. B Elwyne Kle	dameanks, lettke, l	Age by floor Kyle. Madison.	DIS	TRICT		tht and	other caus	ses
1A 1D	Test	s disca	rded on B	whe	damanks, lettke, lettk	age by flo Kyle. Madison.	DIS"	FRICT BIGGAR 8.6	12	42	3 Feed	es
1A 1D	Test 11 11 11 12	s disca	rded on B B	WHE Vantage Husky Titan	dam: anks, littke, l	Age by floor Kyle. Madison.	DIS"	FRICT	12			ies
1A 1D	Test 11 11 11 12	s disca	rded on B B	WHE Vantage Husky Titan	dam: anks, littke, l	Age by floor Kyle. Madison.	HUE, E	FRIGT 8.6 8.8 8.8 8.4	12 2.2 3.0 2.2	42 47 36	3 Feed 1 Feed 3 Feed	ees
1A 1D	Test 11 11 11 12	s disca	rded on B B	WHE Vantage Husky Harlan Titan Husky Hels.	en var dams, anks, lettke, let	Age by floor Kyle. Madison.	HUE, E 13 14 14 11	FRIGT 8.6 8.8 8.4 8.6	12 2.2 3.0 2.2	42 47 36	3 Feed 1 Feed 3 Feed	es
No signif	Test 11 11 12	s disca	rded on B B	WHE Vantage Husky Hels. Vantage Husky Hels. Vantage Husky Harlan Titan Titan Hels.	EAT RALP: 26.3 17.6 14.1 ONAL 25.4	POOL H DONA	HUE, E 13 14 14 11	FRIGT 8.6 8.8 8.4 8.6	12 2.2 3.0 2.2	42 47 36 43	3 Feed 1 Feed 3 Feed 2 Feed 1 Feed 1 Feed 2 Feed	ees
1A	12 12 12	s disca 1 3	B B B	Vantage Husky Harlan Husky Harlan Titan Husky Harlan Titan Husky Harlan Titan Titan Husky Harlan Titan Husky Husky Harlan Titan Husky Harlan Titan Husky Harlan Titan Husky Harlan Titan Titan Husky Harlan Titan Titan Husky Harlan Titan Husky Harlan Titan Harlan Titan Harlan Titan Harlan Harlan Harlan Titan Harlan Har	EAT RALP: 26.3 17.6 14.1 ONAL 25.4	POOL H DONA	HUE, E 13 14 14 11	FRIGT 8.6 8.8 8.4 8.6	12 2.2 3.0 2.2	42 47 36 43 49 51	3 Feed 1 Feed 3 Feed 2 Feed 1 Feed 1 Feed	ees
1A	12 12 12	s disca 1 3	B B B	Vantage Husky Hels Vantage Husky Harlan Titan Hels Husky Harlan Titan Hels Husky Harlan Titan Hels	en var dam: dam: anks, tttke, l 17.5 317.6 14.1 100NAL 36.6 24.4 37.9	pool	DIS** HUE, E 13 14 14 11 NGER, :	**************************************	2.2 3.0 2.2 2.0	42 47 36 43	3 Feed 1 Feed 3 Feed 2 Feed 1 Feed 1 Feed 2 Feed	ies
1A	12 12 12	s disca 1 3	B B B	Vantage Husky Hels Vantage Husky Harlan Titan Hels Husky Harlan Titan Hels Husky Harlan Titan Hels	en var dam: anks, tttke, l 17.5 26.3 17.6 14.1 ONAL 36.6 43.6 37.9	POOL H DONA	DIS** HUE, E 13 14 14 11 NGER, :	**************************************	2.2 3.0 2.2 2.0	42 47 36 43	3 Feed 1 Feed 3 Feed 2 Feed 1 Feed 1 Feed 2 Feed	ies

Tests discarded on account of damage by flooding, pests, hail, drought and other causes 1A...... 12 4 B M. Ronald McGinnis, Luseland.

Vantage..... 103 .6 Husky...... 96 .2 Balder..... 95 .8 Hannchen. 88 .2

3E..... 12

3G..... 12

7

Necessary difference-4.9 bushels.

10

Necessary difference-4.6 bushels.

В

B

8.6 7.8 6.4 7.4

32

30 25 27

1.0 2.6 2.0 2.2

1.4 1.8 1.4 1.2

1 Feed

1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R

1 Feed 1 C.W. 2R 1 C.W. 2R

Variety Zone	Dist.	Sub- Dist.	Test Desig- nation	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck	Lbs. per meas- ured bushel	Com- mercial grades	Grading remarks
					JOI	IN J. ZE	RR, AI	LLAN				
2B	13	3	A	Vantage Husky Harlan	30.4 35.3 34.7	99 102 97	22 26 24	6.5 6.5 6.0	3.0 3.0 3.0	49 51 44	1 Feed 1 Feed 2 Feed	=
Test dam	aged	by lives	stock—Y	Titan Tields not use	31.5 ed in z	101 one summ	ary.	5.5	3.0	47	1 Feed	T
				F	RANK	SAFINU	K, CO	LONSAY				
2B	13	4	В	Vantage Husky	66.4	94 91 89	27 27 28	10.0 10.0 10.0	2.2 3.0 1.4	44 47 43	2 Feed 1 Feed 2 Feed	=
Necessary	y diff	erence—	-4.2 bus	Harlan Titan hels.	62.7	93	27	10.0	1.8	46	1 Feed	-
					MPSE	Y SEDE	LNICK	STRIIA	N			
2B	13	7	A	Vantage	42.2	84	25	9.4	1.2	46	1 Feed	_
				Husky Harlan	43.8	85 84	23 22	8.8	2.0	51 43	1 Feed 2 Feed	_
NT.	1100	1.7/2/		Titan	34.4	83	24	8.8	1.4	44	2 Feed	-
Necessar	y diff	erence—	-6.4 bus	- Annual Control	TINZ S	A ATTACK	DDITE	HOMENET	,			
2B	13	8	С	Vantage	48.0	SANDET, 96	30	8.0	2.0	47 51	1 Feed	_
		1000		Husky Harlan	53.6	96 93	28 30	8.6 9.0	2.0	51 46	1 Feed 1 Feed	=
NT			1-14 4:00	Titan	40.2	92	29	9.0	2.0	47	1 Feed	-
No signif	ıcant	grain y	ield diffe	erence betwee	-							
3C	13	9	В	Vantage		CHWAR	K, CUI	OWORTE		47	1 Feed	_
	15		D	Husky	71.2	_	-	-	-	49	1 Feed	
				Balder Hannchen	47.1	_	=	_	_	52 52	2 C.W. 2R 2 C.W. 2R	St. St.
Necessary	y diff	erence-	-9.8 bus	hels.								
					JAMI	POOL		OKLA		45	2 Food	
4A	14	1	A	Vantage Husky Balder	JAMI 28.1 27.0 39.2			7.0 8.0 10.0	2.0 2.0 1.0	45 47 51 50	2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R	Ξ
				Vantage Husky	JAMI 28.1 27.0 39.2 29.5	ES N. WI	LSON,	OKLA 7.0 8.0	2.0	47 51	1 Feed	Ξ
			tering—	Vantage Husky Balder Hannchen Yields not u	JAMI 28.1 27.0 39.2 29.5 sed in	ES N. WI	LSON,	OKLA 7.0 8.0 10.0 6.0	2.0 2.0 1.0 1.0	47 51 50	1 Feed 1 C.W. 2R 2 C.W. 2R	Ξ
	aged			Vantage Husky Balder Hannchen Yields not u WII Vantage Husky	JAMI 28.1 27.0 39.2 29.5 sed in LIAM 38.4 23.3	zone sumi	LSON,	OKLA 7.0 8.0 10.0 6.0	2.0 2.0 1.0 1.0	47 51 50 45 49	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed	
Test dam	aged	by shat	etering—B	Vantage Husky Balder Hannchen Yields not u WII Vantage Husky Balder Hannchen	JAMI 28.1 27.0 39.2 29.5 sed in LIAM 38.4 23.3 41.0 30.8	zone sumi	LSON,	OKLA 7.0 8.0 10.0 6.0	2.0 2.0 1.0 1.0	47 51 50 45	1 Feed 1 C.W. 2R 2 C.W. 2R	
Test dam	aged	by shat	etering—B	Vantage Husky Balder Hannchen Yields not u WII Vantage Husky Balder Hannchen not used in	28.1 27.0 39.2 29.5 sed in LIAM 38.4 23.3 41.0 30.8 zone s	zone sumi	mary.	7.0 8.0 10.0 6.0 FOSSTO	2.0 2.0 1.0 1.0	47 51 50 45 49 51	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R	
Test dam	aged	by shat	etering—B	Vantage Husky Balder Hannchen Yields not u WII Vantage Husky Balder Hannchen not used in	JAMI 28.1 27.0 39.2 29.5 sed in LIAM 38.4 23.3 41.0 30.8 zone s	zone sumi I ZAPOR Ummary.	LSON, ————————————————————————————————————	7.0 8.0 10.0 6.0 FOSSTO	2.0 2.0 1.0 1.0 DN	47 51 50 45 49 51 49	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R	HH HH
Test dam	14	by shat 4 by hail	B —Yields	Vantage Husky Balder Hannchen Yields not u WII Vantage Husky Balder Hannchen. not used in G. Vantage Husky	JAMI 28.1 27.0 39.2 29.5 sed in LIAM 38.4 23.3 41.0 30.8 zone s TERI 41.3 42.1 49.8	zone summ I ZAPOR ————————————————————————————————————	ULSON,	OKLA 7.0 8.0 10.0 10.0 6.0 FOSSTO — — — — — — — — 7.6 8.0 8.2	2.0 2.0 1.0 1.0 1.0 DN T 2.2 1.8 3.0	47 51 50 45 49 51 49 48 42 54	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 Feed 1 C.W. 2R	
Test dam	14 naged	by shat 4 by hail	B —Yields	Vantage Husky Balder Hannchen Yields not u WII Vantage Husky Balder Hannchen not used in G Vantage Husky Balder Husky Hannchen	JAMI 28.1 27.0 39.2 29.5 sed in LIAM 38.4 23.3 41.0 30.8 zone s TERI 41.3 42.1 49.8	zone summi ZAPOR ummary. RY FENN 94 98	COSKY,	OKLA 7.0 8.0 10.0 6.0 FOSST(2.0 2.0 1.0 1.0 1.0 T	47 51 50 45 49 51 49 48 42	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 Feed	
Test dam 3C Test dam 3D	14 naged	by shat 4 by hail	B —Yields	Vantage Husky Balder Hannchen Yields not u WII Vantage Husky Balder Hannchen not used in G. Vantage Husky Balder Hannchen	JAMI 28.1 27.0 39.2 29.5 sed in LIAM 38.4 23.3 41.0 30.8 zone s TERI 41.3 42.1 49.8 40.7	zone summ I ZAPOR ————————————————————————————————————	MELL, 1 27 33 25 31	OKLA 7.0 8.0 10.0 6.0 FOSSTO — — — — MELFOR 8.0 8.2 7.2	2.0 2.0 1.0 1.0 1.0 DN	47 51 50 45 49 51 49 48 42 54	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R	
Test dam 3C Test dam 3D	14 laged 14 14	by shat 4 by hail	B —Yields	Vantage Husky Balder Hannchen Yields not u WII Vantage Husky Balder Hannchen not used in G. Vantage Husky Balder Hannchen hels. R. Vantage Hannchen hels.	JAMI 28.1 27.0 39.2 29.5 sed in LIAN 38.4 23.3 41.0 30.8 zone s TERI 41.3 42.1 49.8 40.7	zone summi ZAPOR ZAPOR ummary. RY FENN 94 98 94 95	MELL, 1 27 33 25 23 31 REED, 1 30 32	OKLA 7.0 8.0 10.0 10.0 6.0 FOSSTO — — — — MELFOR 7.6 8.0 8.2 2 LENVAL: 10.0 8.0	2.0 2.0 1.0 1.0 1.0 DN	45 45 49 51 49 51 49 48 42 54 54 54	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 C.W. 2R 1 C.W. 2R 1 C.W. 2R	
Test dam Test dam Test dam Necessar	14 14 14 14 14	by shate 4 by hail 8 erence— 9	B —Yields A —2.2 bus	Vantage Husky Balder Yields not u WII Vantage Husky Balder Hannchen not used in G. Vantage Husky Balder Hannchen hels. R. Vantage Hannchen Husky Balder Hannchen	JAMII 28.1 27.0 39.2 29.5 sed in LIAM 38.4 23.3 41.0 30.8 zone s TERI 49.8 40.7 J. D 53.2 50.2 47.6	zone sumi I ZAPOR Ummary. RY FENN 94 98 94 95	LSON, ————————————————————————————————————	OKLA 7.0 8.0 10.0 10.0 6.0 FOSSTO — — — MELFOR 7.6 8.0 8.2 7.2 LENVALL 10.0	2.0 2.0 1.0 1.0 1.0 DN	47 51 50 45 49 51 49 51 49 48 42 54 54	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 C.W. 2R 1 C.W. 2R	
Test dam Test dam 3D	14 14 14 14 14	by shate 4 by hail 8 erence— 9	B —Yields A —2.2 bus	Vantage Husky Balder Yields not u WII Vantage Husky Balder Hannchen not used in G. Vantage Husky Balder Husky Balder Hannchen hels. R. Vantage Husky Balder Hannchen hels.	JAMI 28.1 27.0 39.2 29.5 seed in LLIAN 23.3 38.4 41.0 30.8 zone s TERI 41.3 40.7 J. D. 53.2 47.6 39.6	ZAPOR ZAPOR UMMARY SPENN 94 98 94 95 UANE FI 100 102 102 104	Mary. OSKY, OSKY, NELL, I 27 32 531 REED, 1 30 32 25 27	7.0 8.0 10.0 6.0 FOSST(———————————————————————————————————	2.0 2.0 1.0 1.0 1.0 T 2.2 1.8 3.0 2.8	45 45 45 49 51 49 48 48 42 54 54 54	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 Feed 1 C.W. 2R	
Test dam Test dam Necessary Necessary	14 14 14 14 14 14	by shate 4 by hail 8 erence— 9 erence—	B —Yields A —2.2 bus B	Vantage Husky Balder Yields not u WII Vantage Husky Balder Hannchen. not used in G. Vantage Husky Balder Hannchen. hels. R. Vantage Husky Balder Husky Balder Husky Balder Husky Balder Husky Balder Husky Balder	JAMI 28.1 27.0 39.2 29.5 seed in LILIAN 38.4 23.3 34.1 41.0 30.8 42.1 41.3 42.1 49.8 40.7 J. D 53.2 47.6 39.6	zone summ I ZAPOR — — — — — — — — — — — — — — — — — —	MELL, P. 33 25 31 REED, 130 32 25 27 A, SMO	OKLA 7.0 8.0 10.0 6.0 FOSSTO — — — MELFOR 7.6 8.0 8.2 7.2 LENVALI 10.0 9.0 7.0	2.0 2.0 1.0 1.0 1.0 DN T T 2.2 1.8 3.0 2.8 E 1.0 2.0 3.0 3.0	45 45 49 51 49 51 49 48 42 54 54 54 54 55 53	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R	
Test dam Test dam Test dam Necessar	14 14 14 14 14 14	by shate 4 by hail 8 erence— 9	B —Yields A —2.2 bus	Vantage Husky Balder Yields not u WII Vantage Husky Balder Hannchen not used in G. Vantage Husky. Balder Hannchen. hels. R. Vantage Hannchen. hels. BEI Vantage Husky Balder Hannchen. hels.	JAMII 28.1 1 27.0 39.2 29.5 29.5 29.5 29.5 29.5 29.5 30.2 47.6 49.8 40.7 J. D. 53.2 47.6 29.6 29.6 29.6 29.6 29.6 29.6 29.6 29	ZONE SUMI ZONE SUMI ZONE SUMI ZAPOR UNITED SET 100 102 102 102 104 Y BORSE 90 92	MELL, I 27 33 25 31 REED, 1 30 32 25 27 A, SMO 22 22 22	OKLA 7.0 8.0 10.0 6.0 FOSSTO — — — — WIELFOR 7.6 8.0 8.2 7.2 LENVAL 10.0 9.0 6 WY BUE	2.0 2.0 1.0 1.0 1.0 T T 2.2 1.8 3.0 2.8 E 1.0 2.0 3.0 3.0 3.0	45 45 49 51 49 51 49 48 42 54 54 54 54 54	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R	
Test dam Test dam Necessary Necessary	14 14 14 14 14 14	by shate 4 by hail 8 erence— 9 erence—	B —Yields A —2.2 bus B	Vantage Husky Balder Yields not u WII Vantage Husky Balder Hannchen not used in G. Vantage Hannchen hels. R. Vantage Hannchen hels. Balder Balder Hannchen Husky Balder Balder Hannchen Husky Balder Balder BEF Vantage Hannchen hels.	JAMI 28.11 39.2 29.5 sed in LLIAM 38.4 23.3 40.3 30.8 40.7 J. D 53.2 47.6 39.6 VERL 14.2 15.6 15.6	ZS N. WI Zone summ I ZAPOR UMMARY FENN 94 98 94 95 UANE FF 100 102 104 V BORSA 90 92 102	CLSON,	OKLA 7.0 8.0 10.0 10.0 6.0 FOSSTO — — — — WELFOR 7.6 8.0 8.2 7.2 LENVAL: 10.0 8.0 9.0 7.0	2.0 2.0 1.0 1.0 1.0 DN T 2.2 1.8 3.0 2.8 E 1.0 3.0 3.0 3.0 3.0	45 45 49 51 49 51 49 48 42 54 54 54 54	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R 1 Feed 1 C.W. 2R	
Test dam Test dam Necessar: Necessar: Necessar:	14 14 14 14 14	by shat 4 by hail 8 erence— 9 erence— 11	B —Yields A —2.2 bus B —6.5 bus	Vantage Husky Balder Yields not u WII Vantage Husky Balder Hannchen not used in G. Vantage Husky. Balder Hannchen. hels. R. Vantage Hannchen. hels. BEI Vantage Husky Balder Hannchen. hels.	JAMII 28.1 1 27.0 39.2 29.5 5 29.5 5 20.2 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6	ZAPOR ZONE SUMM ZONE SUMM ZAPOR UMMARY SPENN 94 98 94 95 UANE FF 100 100 100 100 100 100 100	MELL, I 27 33 25 31 REED, 1 30 32 25 27 A, SMO 22 22 20 20	OKLA 7.0 8.0 10.0 6.0 FOSSTO — — — — WIELFOR 7.6 8.0 8.2 7.2 LENVAL 10.0 9.0 6 WY BUE	2.0 2.0 1.0 1.0 1.0 DN	45 45 45 49 51 49 48 42 54 54 54 54 48 49 52 53	1 Feed 1 C.W. 2R 2 C.W. 2R 2 Feed 1 Feed 1 C.W. 2R 2 C.W. 2R 1 Feed 1 C.W. 2R 1 C.W. 2R 1 C.W. 2R 1 C.W. 2R 1 C.W. 2R	

				******		FUUL	ופוש	RICT	15			
Cereal Variety Zone	Dist.	Sub- Dist.	Test Desig- nation	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per meas- ured bushel	Com- mercial grades	Grading
3J		3 grain y	B ield diffe	Vantage Husky Balder Hannchen	45.8 56.5 52.7 47.6	97 98 99 98 ieties.	28 27	9.0 9.0 9.0 8.6 8.8	1.0 1.0 1.2 1.0	46 47 54 52	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	=
3G	15	4	В	Vantage	105.0	ID LESS	31	8.4	1.6	52	1 Feed	_
Necessar	ar diffe	rongo	12 6 hu	Husky Balder Hannchen	68.7	95 96 94	29 27 28	8.4 7.8 8.6	2.4 2.0 2.2	54 54 52	1 Feed 2 C.W. 2R 1 C.W. 2R	G.
	y diffe	Tence-	-12.0 Du									
4B	15	6	В	Vantage Husky Balder	34.6	H. O. R.	EED, S	HELL LA	.KE	44 46 51	2 Feed 1 Feed 1 C.W. 2R	=
Necessar	y diffe	erence-	-3.7 bus	Hannchen	37.4	_	_	10	_	53	1 C.W. 2R	_
3J	15	8	В	JIM	L. H	UNTER,			1.0	50	1.0.1	
)	15	8	В	Vantage Husky Balder Hannchen	59.7 64.0		30 30 26 28	10.0 10.0 10.0 10.0	1.0 2.0 3.0 3.0	50 51 54 54	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	=
Necessar	y diffe	erence-	-6.2 bus						3.0	34	10.11.210	
зЈ	15	9	В	Vantage Husky Balder	27.8 27.5	ENYSUIE	38 34	RIBOUR	2.0	47 45	1 Feed 2 Feed	=
No signi	ficant	grain y	ield diffe	Hannchen erence betwee	35.5	ieties.	35 36	r.,	2.6 1.8	52 52	1 C.W. 2R 1 C.W. 2R	_
				ALOIS V	v. su	BCHYSE	IYN, JA	NOW CO	ORNER	S		
3J	15	10	A	Vantage Husky Balder Hannchen	68.1 70.2 63.4			=		46 50 53 54	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	=
	At I			WHE	AT	POOL	DIST	RICT	16		-1	
				М	ARVI	N PHILL	IPS. R	ICHARD				
3G	16	2	В	Vantage Husky Balder	39.5 35.5 26.8	97 98 102	18 15 14	9.8 9.6 10.0	2.4 2.8 2.2	49 53 54	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	=
No signif	ficant	grain y	ield diffe	Hannchen erence betwee	n var	99 ieties.	15	9.8	2.6	55	1 C.W. 2R	-
				DOUGL	AS W	. ILLING	WORT	H, NORT	н ват	TLEFOR		
3G	16	3	В	Vantage Husky Balder Hannchen	18.6 29.1	Ξ	18 15 20 16	=	=	50 52 53 53	1 Feed 1 Feed 1 Feed 2 C.W. 2R	G. W. S
Test bad	ly sha	ttered-	-Yields	not used in z	one su	ımmary.	10			33	2 C. W. 210	W.5
20	16		D	V. I	AVII	s. ott	AS, ED	AM		40		
3E	16	4	В	Vantage Husky Balder Hannchen	9.4	=	25 23 20 23	8.0 3.8 1.0 2.0	1.8 2.2 3.0 3.0	50 	1 Feed 1 Feed 1 C.W. 2R	=
Test dan	naged	by rain	and hai	l, samples in		ete—Yield		ed in zone	summar		20.77.210	
3E	16	5	В	Vantage Husky	71.9 75.9	95 95 95 96	33 31	8.8 9.0	1.8	53 53	1 Feed 1 Feed	_
Nesessar	v diff	rence.	-8 8 hus	Balder Hannchen	57.1	95	26 28	9.0 8.2	2.0	54 53	1 C.W. 2R 1 C.W. 2R	_
1 4Cecssel	y dille	Tence-	o.o bus		OPE	om c To	NO F	UDWEGG				
3E	16	6	В	Vantage Husky Balder	47.2	RT G. LC 118 121 126	24 18 15	9.0 10.0 9.0	3.0 3.0 3.0	50 50 53	1 Feed 1 Feed 1 Feed	
No signif	ficant	grain y	ield diffe	Hannchen	41.6	116	20	9.0	3.0	52	1 Feed	G. G.

Wheat Pool District 16—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test Desig- nation	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per meas- ured bushel	Com- mercial grades	Grading remarks
				J	E R	THERY	DEER	CREEK				
3E	16	7	В	Vantage Husky Balder Hannchen	78.7 61.5	=	=	=	=	50 51 53 53	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	Ξ
Necessar	y diffe	rence-	-6.8 bus	hels.								
				DON	NA A	. FOSTE	R, SPR	UCE LAI	KE			
3E		8	D -4 3 bus	Vantage Husky Balder Hannchen	51.7 38.9	101 102 103 103	34 34 31 33	9.0 9.0 10.0 10.0	1.6 1.0 1.0 1.0	43 47 48 50	2 Feed 1 Feed 3 C.W. 2R 3 C.W. 2R	
			7.5 200	110101	16/17/		. 112					
		100				GAMBL	E, MEI	DSTEAD				
4B	16	9	В	Vantage Husky Balder Hannchen.	101.1 77.2	=	=	=	=	43 47 49 46	2 Feed 1 Feed 1 Feed 1 Feed	<u>G</u> .
Necessar	y diffe	erence-	-12.2 bu	ishels.								
	MI	111.71	12	JO	SEPH	A. WIL	LICK, I	MILDREI				
4B		10 erence—	C -2.5 bus	Vantage Husky Balder Hannchen	52 8 65.2 51.7	92 92 93 93	31 29 28 26			48 50 55 55	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	
	FIT	11.75	173	GAY	LE I	A. CONL	AN, DO	RINTOS	н			
4B	16	11	В	Vantage Husky Balder Hannchen	38.4 44.6 44.1		33 33 27 31	Ξ	Ξ	43 47 49 49	2 Feed 1 Feed 2 C.W. 2R 3 C.W. 2R	=
No signif	ficant	grain y	ield diffe	erence betwee		ieties.				,	-	
	74.0		F	RANK J. A	ND F	RICHARD	J. HT	TTER. G	OODSO	IL		
4B	16	11	С	Vantage Husky Balder Hannchen	50.1 60.5 60.5	103 105 104 104	31 34 28 31	10.0 10.0 10.0 7.2	1.0 1.0 1.0 1.0	47 51 53 53	1 Feed 1 Feed 1 C.W. 2R 1 C.W. 2R	=======================================
Necessar	y diffe	erence-	-4.3 bus									



Albert Freimuth with the barley test which he supervised at Golden Prairie,

FLAX TESTS

A total of 34 flax tests were conducted in 1953 and these were located in Cereal Variety Zones 2A, 2E, 3A, 3B, 3C, 3D, 3F, 3J and 4B (see Cereal Variety Zone map, page 41). The varieties tested were Rocket, Redwood, Marine, 3901-D (Raja) and CI-1155.

DESCRIPTION OF VARIETIES

Rocket was developed at the Central Experimental Farm, Ottawa, from the cross Argentine 8C X Redwing. It is resistant to rust and moderately resistant to wilt. Rocket is mid-late in maturity. It has large brown seeds which produce a high quantity of good quality oil. It is a high yielding variety which is recommended for use in most zones of Saskatchewan.

Redwood was developed by the Minnesota Agricultural Experiment Station, in co-operation with the United States Department of Agriculture. It is immune to the present races of rust and is resistant to wilt. Redwood is a late maturing variety. It has brown seeds which produce high quality oil. Redwood is a licensed variety which is still undergoing tests in Saskatchewan.

Marine was originated at the North Dakota Experiment Station, Fargo, from the cross C.I. 975 X Sheyenne. It is immune to the present races of rust and is resistant to wilt. Marine is an early maturing variety. It has brown seeds which produce a high percentage of good quality oil. Marine is a licensed variety which is still undergoing tests in Saskatchewan.

3901-D (Raja) was developed at the Central Experimental Farm, Ottawa. It is an early maturing variety with short, strong straw. It has large seeds which produce high oil content. Raja is immune to rust, and is resistant to wilt and pasmo. Raja is a licensed variety which is still undergoing tests in Saskatchewan.

CI-1155 was developed at the Minnesota Agricultural Experiment Station. It is high yielding, medium-early, and has strong straw. The seed is medium to small in size and has high oil content. It is resistant to rust and pasmo and moderately resistant to wilt. CI-1155 is in the early testing stage and has not yet been licensed.

TABLE No. 50—AVERAGE YIELDS IN BUSHELS PER ACRE SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	No. of Satisfactory Tests	Rocket	Redwood	Marine	Raja	CI-1155	Necessary Difference* in Bushels
2A	3	13.1	13.6	12.2	12.3	15.8	2.65
2E	2	17.1	18.9	14.4	13.6	18.4	N.S.
3A	3	19.1	19.3	22.1	21.2	18.5	N.S. N.S.
3B	4	14.1	17.1	15.6	15.6	19.9	2.86
3C	6	19.8	20.3	18.4	17.3	20.8	2.09
3D and 3F	4	30.6	29.3	25.6	25.6	29.9	3.31
3J	2	14.8	12.8	13.5	11.8	14.9	N.S.

*Necessary difference.—Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables little confidence can be placed in the superiority of one variety over the other in that particular zone group.

N.S.—No significant grain yield difference between varieties.

Note.—Only one satisfactory test was conducted in zone 4B.

Grain Yield and Official Recommendations

An average of all tests shows that CI-1155 was highest in yield. It was tested by the Wheat Pool for the first time in 1953 and placed first in four zones and second in two others. Further testing is required before definite recommendations can be made. CI-1155 is a new variety and at the time of writing it has not been licensed.

Redwood ranked second in average yield. It placed first in one zone and was second in three. In Wheat Pool tests during 1952 Redwood outyielded all other varieties on an average basis. On the basis of its performance in a large number of tests Redwood was officially recommended in 1954 in approximately half the zones in Saskatchewan.

Rocket placed third in yield during 1952 and 1953. The differences between this variety and Redwood were usually of a minor nature. During 1953 Rocket was first in one zone, second in two, and third in three zones. Because of its good performance in recent years, Rocket is officially recommended in all zones except 3H, 4A and 4B.

Marine placed fourth in average yield during 1953 and it was also fourth in 1952. This variety requires further testing before official recommendations are made. Marine's early maturity is worthy of consideration where the frost-free season is short.

3901-D (Raja) was outyielded by all other varieties on an average basis in 1953. It has been included in Wheat Pool tests for only one year and further testing is required before recommendations can be made. On the basis of tests conducted to date, Raja does not appear to be a high yielding variety. Although Raja matures early, it is questionable whether this feature is of sufficient importance in most areas to compensate for its relatively low yield.

HISTOGRAMS SHOWING FLAX YIELDS BY CEREAL VARIETY ZONES

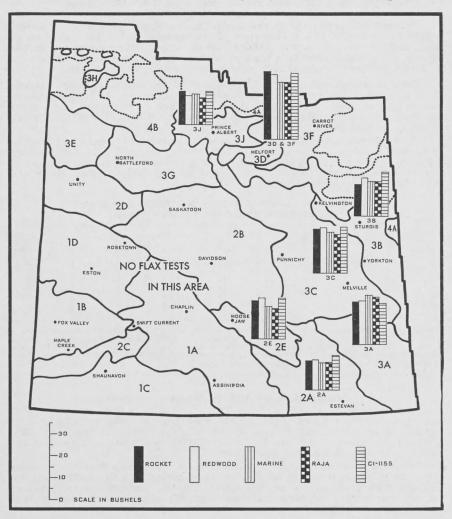


TABLE No. 51—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING
SUMMARIZED BY CEREAL VARIETY ZONES

					-
Cereal Variety Zone	Rocket	Redwood	Marine	Raja	CI-1155
2A				albuna_ = to	
2E	_				-
3A	105.7	104.0	103.7	104.3	105.3
3B	111.5	112.5	105.0	105.0	116.0
3C	113.0	113.5	108.5	109.0	111.0
3D and 3F	_	_	-	_	_
3 J	_	_	-	_	_

Table No. 51. Maturity dates were available from only three zones, but on the basis of this information Marine ripened earlier than the other varieties. It was followed closely by Raja. The three other varieties all ripened somewhat later.

TABLE No. 52.—AVERAGE HEIGHT OF PLANTS IN INCHES SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Rocket	Redwood	Marine	Raja	CI-1155
2A	2011		_	_	100
2E	_	210	-		4
3A	26.3	27.0	25.3	25.0	27.0
3B	27.5	28.5	25.0	24.0	27.5
3C	23.2	23.6	22.0	22.8	24.6
3D and 3F	22.0	22.0	21.0	22.0	21.0
31	19.0	19.0	19.0	19.0	20.0

Table No. 52. Redwood was taller than the other varieties on an average basis. It was followed closely by CI-1155 and Rocket. Raja and Marine were generally shorter.

TABLE No. 53.—AVERAGE WEIGHT PER MEASURED BUSHEL SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Rocket	Redwood	Marine	Raja	CI-1155
2A	53.5	53.8	54.5	53.3	54.0
2E	53.5	54.5	54.5	54.0	55.0
3A	53.3	53.0	54.3	53.8	54.5
3B	52.4	52.6	54.8	54.0	54.6
3C	53.3	54.0	53.9	54.2	53.6
3D and 3F	53.0	53.8	54.3	54.3	54.0
31	54.0	54.0	54.0	54.0	54.5

Table No. 53. CI-1155 was highest in average bushel weight, followed by Marine, Raja, Redwood and Rocket in that order. None of the varieties were noticeably low in bushel weight.

TABLE No. 54.—COMMERCIAL GRADES IN PERCENTAGE

Variety	1 C.W.	2 C.W.	3 C.W.
RocketRedwood	75.9 79.3	17.2 6.9	% 6.9 13.8
MarineRajaCI-1155	86.3 69.0 86.2	10.3 24.1 6.9	3.4 6.9 6.9

Table No. 54. All varieties were satisfactory in grading ability. Marine and CI-1155 were practically equal, followed by Redwood, Rocket and Raja in that order.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

TABLE No. 55.—SUMMARIZED RESULTS FOR ZONE 2A
(3 satisfactory tests)

0.00	Rocket	Redwood	Marine	Raja	CI-1155
Yield in bushels per acre	13.1	13.6	12.2	12.3	15.8
Days from seeding to ripening	_	_	-	-	_
Plant height in inches	_	-	-	_	_
Bushel weight in pounds	53.5	53.8	54.5	53.3	54.0
Commercial grades in percentage: 1 C.W 2 C.W	100.0	100.0	100.0	50.0 50.0	100.0

Necessary difference-2.7 bushels.

Table No. 55. CI-1155 outyielded the other varieties, the difference being significant in the case of Marine and Raja.

Redwood placed second in yield, followed closely by Rocket.

Raja and Marine were practically equal in yield but Raja was slightly lower in bushel weight and grades than the other varieties in this zone.

Redwood, Rocket and Victory are officially recommended in Zone 2A.

TABLE No. 56.—SUMMARIZED RESULTS FOR ZONE 2E

(2 satisfactory tests)

	Rocket	Redwood	Marine	Raja	CI-1155
Yield in bushels per acre	17.1	18.9	14.4	13.6	18.4
Days from seeding to ripening	-	_	-	_	
Plant height in inches	_		-	-	-
Bushel weight in pounds	53.5	54.5	54.5	54.0	55.0
Commercial grades in percentage: 1 C.W	100.0	100.0	100.0	100.0	100.0

No significant grain yield difference between varieties.

Table No. 56. In this zone yield differences were not significant and should not be considered of major importance.

Redwood placed first in yield, followed closely by CI-1155. CI-1155

was higher in bushel weight than any other variety in this zone.

Rocket placed third in yield. It was low in bushel weight.

Marine and Raja yielded fourth and fifth respectively. All varieties graded equally well.

Redwood, Rocket and Victory are officially recommended in this zone.

TABLE No. 57.—SUMMARIZED RESULTS FOR ZONE 3A

(3 satisfactory tests)

	Rocket	Redwood	Marine	Raja	CI-1155
Yield in bushels per acre	19.1	19.3	22.1	21.2	18.5
Days from seeding to ripening	105.7	104.0	103.7	104.3	105.3
Plant height in inches	26.3	27.0	25.3	25.0	27.0
Bushel weight in pounds	53.3	53.0	54.3	53.8	54.5
Commercial grades in percentage: 1 C.W	75.0	75.0	100.0	75.0	100.0
2 C.W	25.0	25.0	_	25.0	-

No significant grain yield difference between varieties.

Table No. 57. Marine placed first in yield, although it should be noted that the yield differences were not statistically significant. Marine was earlier than the other varieties and was exceeded in bushel weight only by CI-1155.

Raja placed second in yield in this zone.

Redwood and Rocket were practically equal in yield, bushel weight and grading ability.

CI-1155 was lowest in yield in this zone but was high in bushel weight and graded well.

Redwood, Rocket and Victory are officially recommended in this zone.

TABLE No. 58.—SUMMARIZED RESULTS FOR ZONE 3B

(4 satisfactory tests)

	Rocket	Redwood	Marine	Raja	CI-1155
Yield in bushels per acre	14.1	17.1	15.6	15.6	19.9
Days from seeding to ripening	111.5	112.5	105.0	105.0	116.0
Plant height in inches	27.5	28.5	25.0	24.0	27.5
Bushel weight in pounds	52.4	52.6	54.8	54.0	54.6
Commercial grades in percentage: 1 C.W	40.0	60.0	60.0	20.0	60.0
2 C.W	60.0	_	40.0	80.0	40.0
3 C.W	_	40.0	_	_	_

Necessary difference-2.9 bushels.

Table No. 58. CI-1155 was high in yield, exceeding all varieties except Redwood significantly. It ripened later than the other varieties.

Redwood placed second in yield. It was relatively low in bushel weight and grading ability.

Marine and Raja yielded equally well and both matured early. Marine was superior in bushel weight, and graded better than Raja.

Rocket was outyielded by all other varieties and had low bushel weight.

The varieties officially recommended for this zone are Rocket, Victory and Redwing (where an early variety is needed).

TABLE No. 59.—SUMMARIZED RESULTS FOR ZONE 3C (6 satisfactory tests)

	Rocket	Redwood	Marine	Raja	CI-1155
Yield in bushels per acre	19.8	20.3	18.4	17.3	20.8
Days from seeding to ripening	113.0	113.5	108.5	109.0	111.0
Plant height in inches	23.2	23.6	22.0	22.8	24.6
Bushel weight in pounds	53.3	54.0	53.9	54.2	53.6
Commercial grades in percentage: 1 C.W	57.2	57.2	71.4	71.4	71.4
2 C.W	14.3	14.3	14.3	_	
3 C.W	28.5	28.5	14.3	28.6	28.6

Necessary difference-2.1 bushels.

Table No. 59. CI-1155 outyielded the other varieties, exceeding Marine and Raja significantly. It was taller than the other varieties and was mid-late in maturity.

Redwood placed second in yield, exceeding Raja significantly. It was late in maturity.

Rocket was third in yield, although the differences in general performance between this variety, CI-1155 and Redwood were very slight. Rocket ripened relatively late and was slightly lower than the other varieties in bushel weight.

Marine was fourth in yield. It ripened early, had good bushel weight and graded well. It was shorter than the other varieties.

Raja was outyielded by all other varieties tested. It was high in bushel weight, and ripened relatively early.

The varieties officially recommended for this zone are Redwood, Rocket, Victory and Redwing (where an early variety is needed).

TABLE No. 60.—SUMMARIZED RESULTS FOR ZONE GROUP 3D AND 3F (4 satisfactory tests)

	Rocket	Redwood	Marine	Raja	CI-1155
Yield in bushels per acre	30.6	29.3	25.6	25.6	29.9
Days from seeding to ripening		_	-	_	
Plant height in inches	22 0	22.0	21.0	22.0	21.0
Bushel weight in pounds	53.0	53.8	54.3	54.3	54.0
Commercial grades in percentage: 1 C.W	100.0	100.0	100.0	100.0	100.0

Necessary difference-3.3 bushels.

Table No. 60. Rocket outyielded the other varieties in this zone, the differences being significant in the case of Marine and Raja. Rocket was slightly low in bushel weight, although not sufficiently low to affect the grading ability of the variety.

CI-1155 placed second in yield, followed closely by Redwood.

Generally, there was little difference in the performance of the three highest yielding varieties. All three outyielded Marine and Raja significantly. These two varieties were equal in yield, bushel weight and grades.

The recommended varieties for these zones are: Zone 3D, Rocket and Redwing (for early maturity); Zone 3F, Rocket, Victory and Redwing (for early maturity).

TABLE No. 61.—SUMMARIZED RESULTS FOR ZONE 3J

(2 satisfactory tests)

	Rocket	Redwood	Marine	Raja	CI-1155
Yield in bushels per acre	14.8	12.8	13.5	11.8	14.9
Days from seeding to ripening		_			_
Plant height in inches	19.0	19.0	19.0	19.0	20.0
Bushel weight in pounds	54.0	54.0	54.0	54.0	54.5
Commercial grades in percentage: 1 C.W	100.0	100.0	100.0	100.0	100.0

No significant grain yield difference between varieties.

Table No. 61. Only two satisfactory tests were conducted in this zone and the data obtained cannot be considered adequate for complete coverage of the area. The differences in yield were not significant, and differences in other characteristics were of a minor nature.

CI-1155 and Rocket were practically equal in yield. CI-1155 was slightly taller and had slightly higher bushel weight than the other varieties. All varieties graded well.

The varieties officially recommended for this zone are Redwood, Rocket, Victory and Redwing (where early maturity is needed).

CEREAL VARIETY ZONE 4B

The only flax test conduced in Zone 4B was badly damaged by frost. The results of this test will be found in the table "Individual Summarized Results of All Tests—Flax" under District 15, Sub-district 7, conducted by L. Philippe Jean of Debden.



Erick and Arthur Heschel of Calderbank with their variety test sign.

Individual Summarized Results of All Tests-Flax

Important-It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the summarization according to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

				WHEAT	POOL	DISTR	ICT 1			
Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bushels per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Com- mercial grades	Grading
3A	1	2	В	Rocket	18.7 20.7	EN, REDV 110 109	30 29	53 53	1 C.W. 1 C.W.	=
Necessary d	liffere	nce—2	0 bushe	Marine Raja CI-1155	19.1 20.5 16.6	109 110 109	30 27 30	54 54 54	1 C.W. 1 C.W. 1 C.W.	=
1100000017			- Duone	HERBERT	A. HAWK	ER. GLEI	NEWEN			-
3A	1	3	В	Rocket Redwood Marine	16.7 14.2 20.0	=	Ξ	54 53 55	1 C.W. 1 C.W. 1 C.W.	=
No significa	ınt gr	ain yiel	d differe	Raja CI-1155 nce between varie	18.1 17.9 eties.			54 55	1 C.W. 1 C.W.	=
						ATT, BEN	SON			
2A	1	5	В	Rocket Redwood Marine Raja	17.1 19.2 16.6 17.2	Ē	E	54 54 54 53	1 C.W. 1 C.W. 1 C.W.	=
No significa	ınt gr	ain yiel	d differe	CI-1155 ence between varie	24.2	_		54	2 C.W. 1 C.W.	-
				GEORGE R.	KUCHIN	KA JR.,	MACOUN		1 1 2 2	
2A	1	6	С	Rocket Redwood Marine Raja	20.9 18.2 12.6 8.5	Ξ	Ξ	54 54 55 52	1 C.W. 1 C.W. 1 C.W. 2 C.W.	- G.
Test damag	ged—	Yields r	ot used	CI-1155in zone summary	21.3	-	_	55	1 C.W.	-
			-			KI, HUM	Đ			
2A	1	8	С	Rocket Redwood	15.0 17.0			52 53	1 C.W. 1 C.W.	_
				Marine	14.2	-	_	54	1 C.W. 1 C.W.	_
Necessary	liffere	nce—2	0 bushe	Raja CI-1155	14.1 17.4	=		54 54	1 C.W. 1 C.W.	. Co. =
7	Cests	discar	ded on	account of dama	age by flo	oding, pes	ts, hail, dr	ought or o	ther cause	es
3A	1	10	В	Robert B. Doty,	Carlyle.					
	1		1911	WHEAT	POOL	DISTR	ICT 6			
2A	6	1	В	Rocket	EL DREI	HER, TYV	AN	54	1 C.W.	
a	0	1		Redwood	4.7	_		54	1 C.W.	
				Marine	5.9 5.7	=	_	55 54	1 C.W. 1 C.W.	=
Necessary o	liffere	ence—1	. 1 bushe	CI-1155	5.9	-	12 2 17 17	53	1 C.W.	_
AP						RNE, WI	LCOX			
2E	6	3	В	Rocket		7 - 1	三三	53 54	1 C.W. 1 C.W.	_
				Marine	11.7	08	Vinden by	54	1 C.W.	_
				Raja	10.6			54	1 C.W.	

EARL W. PERKIN, ROULEAU
19.4 —
23.1 —

17.0 16.5 22.4

Rocket.....

Redwood.....

Marine..... Raja..... CI-1155.....

Necessary difference-2.7 bushels.

B

WHEAT POOL DISTRICT 7

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bushels per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Com- mercial grades	Grading remarks
3A	7	3	C	Rocket	15.5 19.7 14.4 9.5 19.0	115 112 113 113 113 115	WOTA 20 21 18 19 21	52 52 53 52 54	2 C.W. 2 C.W. 1 C.W. 2 C.W. 1 C.W.	G. G. G.
Part of tes	dam	aged by	Tloodin	g—Yields not used		1				
3A		7	B	Rocket	21.9 22.9 27.2 24.9 21.0	92 91 89 90 92	29 31 28 29 30	54 54 55 55 55	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	E
The second				ALBERT A.		EK. LANG	ENBURG			
3B Test dama		9 birds-	B -Yields	Rocket	26.3 29.5 21.6 2.6 24.7	113 115 108 104 113	27 27 24 22 27	54 55 55 53 55	1 C.W. 1 C.W. 1 C.W. 2 C.W. 1 C.W.	
	:56			WHEAT	POOL	DISTR	ICT 8			
	-			FLORANCE	M. LEC	GE. SAL	COATS			
3B		2 ence—2	C	Rocket Redwood Marine Raja CI-1155	16.1 20.4 13.6 16.1 19.3	110 110 102 106 119	28 30 26 26 28	55 55 56 56 56	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	=
				GERALD R.	KOWAI	willox	VBROOK			-
3C		4 rain yie	C ld differe	Rocket	11.6 12.2 10.7 11.7 13.9	=	28 28 25 28 29	53 54 54 54 54	2 C.W. 2 C.W. 1 C.W. 1 C.W. 1 C.W.	G. G. —
						, HINCHI	TEFE			
3B		8	В	Rocket Redwood Marine Raja CI-1155	7.7 9.2 13.3 8.7 16.4	=		51 50 55 54 54	2 C.W. 3 C.W. 2 C.W. 2 C.W. 2 C.W.	G. F. G. G.
Necessary	differ	ence—4	. I bush			W. A. D.	OTT 1 TT			1 2 2 2
3B		9	C	Rocket	23.1 27.5 24.2 22.6 29.3	WA, NOR		51 52 54 53 54	2 C.W. 1 C.W. 1 C.W. 2 C.W. 1 C.W.	G. G.
- Signific	ant g	am yic	id differ			TER, PELI	V			
3B		10	В	Rocket Redwood Marine Raja CI-1155			=	51 51 54 54 54	2 C.W. 3 C.W. 2 C.W. 2 C.W. 2 C.W.	F. G., I F. F. F.
Necessary					1 61.		4- b-11 4		ther come	
3B	8	discar 1 5	C C	account of dama Bill Malainy, W Ted Penniston,	roxton. Togo.	ooding, pes	sts, nan, d	rought or c	ther caus	es
		37		WHEAT	POOL	DISTR	RICT 9			
3C		1 ence—4	C	CLIFFORI Rocket	25.0 26.4 20.1 20.1 27.3	RSON, KE	24 26 23 23 23 26	54 55 55 55 55 55	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	Ξ
					7	2				-

Wheat Pool District 9-Continued

				Wheat Poo	ol Distr	ict 9—Co	ntinued			
Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bushels per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushe!	Com- mercial grades	Grading remarks
3C		2	C	DONALD F. Rocket	15.0 15.2 17.1 14.4 17.2	109 109 109 102 104 109	25 24 22 23 25	54 54 52 54 54	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	=
No signific	ant gra	ain yiel	d differe	nce between varie						
3C	9	3	С	RAYMOND Rocket	24.9 22.6 23.1 20.6	WILL, KE	ELLIHER = = =	54 54 55 54	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	=
Necessary	differe	nce—2	.7 bushe	CI-1155 ls.	26.4	_	_	54	I C.W.	
3C		7 ain yiel	B d differe	REINHOLD Rocket Redwood Marine Raja CI-1155 nce between varie	18.5 22.7 20.9 18.5 16.3	TKE, PUN	INICHY	53 55 54 54 53	3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W.	F. F. F. F.
				WHEAT I	POOL	DISTRI	CT 13			
3C		10	B	ALVIN J. HE Rocket Redwood Marine Raja CI-1155	23.6 22.8 18.4 18.5 23.9	117 118 115 114 113	19 21 20 19 22	54 55 55 56 54	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	Ξ
	Tests			account of dama Robert D. Bruni			s, hail, dr	ought or ot	her cause	s
				WHEAT I	POOL	DISTRI	CT 14			
3C		5	С	NORBERT Rocket	SCHMOR	KER, PERI	20 19 20 21 21	51 51 52 52 52	3 C.W. 3 C.W. 2 C.W. 3 C.W. 3 C.W.	F., G. F., G. F. F., G. F., G.
Test frozer	1— Y 1e.	lds not	used in	zone summary.		~~~	CTT 4 3 #			
3F		10	В	Rocket	26.6 25.1 19.5 21.2 24.7	SKY, AYL	22 22 22 21 22 21	54 54 55 54 54	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	
Necessary	differe	nce—1	.9 busne		E DEDI	TIME COL				
3F		11	С	Rocket	31.4 29.4 19.5 21.6 28.7		— — — —	53 54 54 55 54	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	
Necessary	differe	nce—3	.8 bushe	ls.						
				WHEAT I	POOL	DISTRI	CT 15			
3J		2 ain yiel	C d differe	ELEANOR Rocket	20.6 19.9 20.4 18.5 21.4	AL, DOM	REMY 19 19 19 19 20	54 54 54 55 55	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	E

Wheat Pool District 15-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Test desig- nation	Varieties	Yield bushels per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Com- mercial grades	Grading remarks
				LOUI	S LARSO	N, HAGE	N		The state of the s	
3D	15	2	D	Rocket Redwood Marine Raja CI-1155	31.6 27.1 30.4 28.3 32.9		=	52 53 54 54 54	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	=
No signific	ant gr	ain yiel	d differe	nce between varie				34	I C.W.	
				I. PHII	IPPE JE	AN, DEBD	EN			
4BTest dama		7 frost—	B -Yields 1	Rocket	5.4 7.9 5.5 4.7 7.6		15 18 16 17 17	52 53 53 52 55	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	=
				DAVID A.	SIMPSOI	SHELLI	RROOK			
3Ј		8	С	Rocket Redwood Marine Raja CI-1155	9.0 5.6 6.5 5.1 8.0			54 54 54 53 54	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	Ξ
Necessary	differe	nce—1	.9 bushe	ls.		Carlotte State				3 34 34 - 016
3F		11	B d differe	Rocket	32.6 35.4 32.9 31.4 33.3	ON, CHOICE	CELAND	53 54 54 54 54	1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 C.W.	=

CONCLUSIONS

The 1953 Saskatchewan wheat crop has been officially estimated at 375,000,000 bushels, or 23.3 bushels per seeded acre. This is far above the long-term average yield for the province, and reflects the excellent growing and harvest conditions which prevailed in most areas.

Despite these excellent general conditions, there were certain areas where serious crop damage resulted from a variety of factors. In the spring many districts were seriously affected by flooding. Later on, part of the north-central and northwestern area experienced damage by drought. Stem rust took a heavy toll in the southeast, and hail and sawflies reduced crop yields in some districts.

These local variations indicate the importance of studying the results of a number of tests in a particular zone, rather than accepting the results of only one test. For similar reasons it is important to consider the performance of a variety over a number of years because of the variation in conditions from year to year.

One of the most outstanding features of the 1953 wheat tests was the excellent performance of Selkirk, the new rust-resistant variety licensed in December, 1953. In areas where stem rust race 15B was severe, all of the standard varieties were damaged, but Selkirk escaped without injury and consequently outyielded the other varieties by a considerable margin. Selkirk also compared favorably with the other varieties in most areas where stem rust was not a factor. It will be tested further in these areas. Over much of the province Thatcher maintained its long-standing record of superiority, and is still highly recommended. Lee has now been tested for a number of years, and although it has been outyielded by Thatcher in most zones, its performance in the eastern and southeastern areas of Saskatchewan has been good. The new sawfly-resistant variety Chinook yielded well, and is now recommended for much of the central and southwestern area of the province.

The new feed barley, Husky, originated at the University of Saskatchewan, repeated its good performance of previous years, particularly in the north and northeast. Balder, a new two-rowed variety which has not yet been licensed, outyielded Hannchen in most zones of the north and northeast, and further tests should be conducted.

Redwood and Rocket flax gave good results, but both were outyielded in 1953 by a new, unlicensed variety known as CI-1155. Marine and Raja, although early in maturity, were generally lower in yield than the other varieties tested.

Generally, the 1953 variety testing program has been highly successful. To a considerable extent this success has been due to the enthusiastic and willing co-operation of the young farm men and women who supervised the individual tests. The distribution of more than 300 tests throughout all parts of the province is a highly valuable feature of this project. This distribution could not be achieved without the active support and assistance of our variety test supervisors.

Each year these tests provide valuable scientific information regarding the performance of new grain varieties, but they also serve another useful purpose. During the growing season each test serves as a constant reminder to farmers in the district where it is conducted of the differences between varieties and the importance of choosing the most suitable varieties available.

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